SANYO

FILE NO.

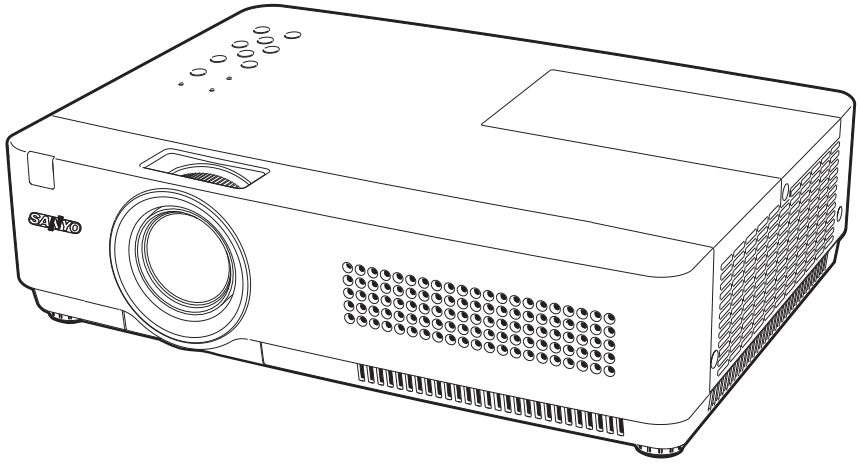
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XU350A
PLC-XU300A

U.S.A, Canada,
Europe, U.K, Asia

Original Version



Chassis No. KF5-XU350A00
KA5-XU300A00

Match the Chassis No. on the rating label of the projector with the Chassis No. in the Service Manual.
If the Chassis No. in the Original Service Manual does not match the projector's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to the servicing.

PRODUCT CODE

PLC-XU350A		PLC-XU300A	
1 122 471 20	(KF5AE)	**1 122 461 20**	(KA5AE)
1 122 472 20	(LF5AE)	**1 122 462 20**	(LA5AE)
1 122 472 22	(LF5CE)	**1 122 462 22**	(LA5CE)

REFERENCE NO. SM5111167-00

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Safety Instructions

Safety Precautions

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.
DO NOT OPERATE THIS PROJECTOR WITHOUT T HE PROTECTIVE SHIELD IN POSITION AND PROP ERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	12.80" x 3.27" x 9.12" (326mm X 83.1mm X 231.6mm) (Not including protrusions)
Net Weight	5.52 lbs (2.5 kg)
Feet Adjustment	0˚ to 12˚

Panel Resolution

LCD Panel System	0.63" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Throw Distance	4.6' ~ 41.7' (1.4 m ~ 12.7 m)
Projection Lens	F 1.60 ~ 1.76 lens with f 22.3 mm ~ 26.8 mm with manual zoom and focus
Projection Lamp	225 W

Interface

Video Input Jack	RCA Type x 1
S-video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer 1/Computer 2 Audio Input Jacks	Mini Jack (stereo) x 2
Computer In 1/Component Input Terminal	Mini D-sub 15 pin x 1
Computer In 2/Monitor Output Terminal	Mini D-sub 15 pin x 1
Control Port Connector	D-sub 9 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (variable)
LAN Connection Terminal	RJ45

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1"(28 mm)

Power

Voltage and Power Consumption	AC 100–120 V (3.7A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (2.0A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41˚F–95˚F (5 ˚C–35 ˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60 ˚C)

Remote Control

Battery	AAA or LR03 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30˚
Dimensions	2.0" (W) x 0.7" (H) x 4.3" (D) (52 mm x 18 mm x 110 mm)
Net Weight	2.37 oz (67 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

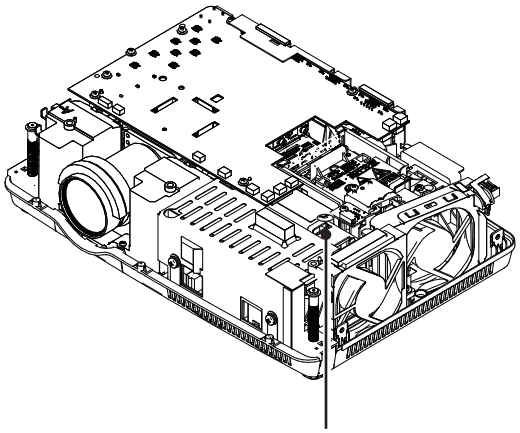
This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100˚C, the thermal switch opens to stop the operation of the power supply circuit.

The thermal switch can be reset itself automatically when the internal temperature becomes normal.

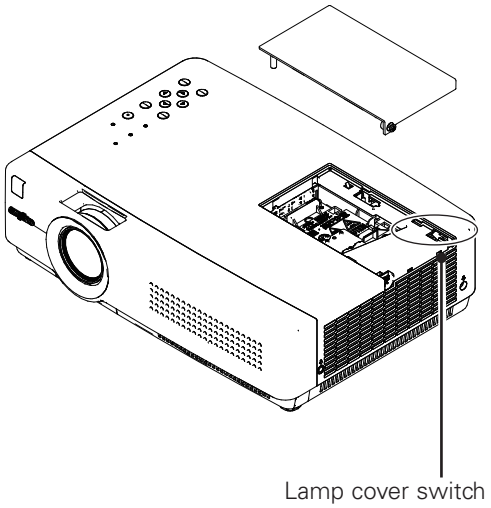
When the internal temperature reaches near 70˚C, the thermal switch returns automatically.



Thermal switch (SW902)

Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Lamp cover switch (SW901)

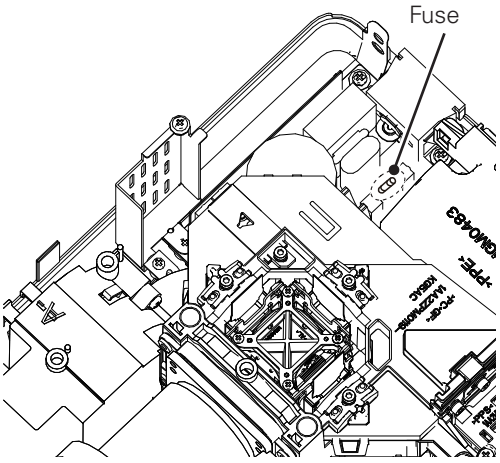
Fuse

A fuse is located inside of the projector. When the POWER indicator is not lighting, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

or

Fuse Part No, : 423 034 4101
TYPE T6.3AH 250V FUSE
Hollyland Co, Ltd. TYPE 50CT063H



How to replace the fuse
1. The fuse is placed on the filter board under the main board. Remove the cabinet top and the main board.
2. Take the fuse off, and replace the new one with the specified type.

Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter "Power supply & protection circuit" in the Chassis Block Diagram section.

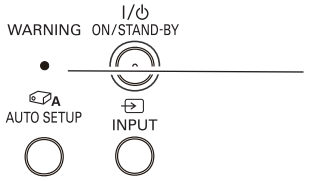
Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the "Air filter care and cleaning" below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, unplug the AC power cord and contact the service station.

Top Control



CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Maintenance

Cleaning the Air Filter

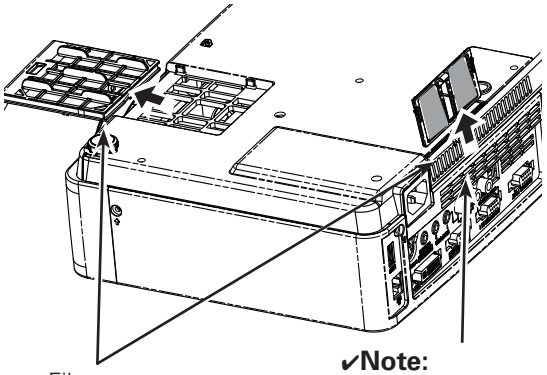
Filter prevents dust from accumulating on the optical elements inside the projector. Should the filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a Filter warning icon appears on the screen, clean the filters immediately. Clean the filters by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 Turn the projector over and remove the filters.

3 Clean the filters softly by using a brush.

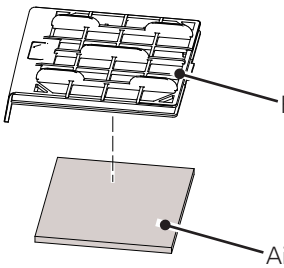
4 Replace the filters properly. Make sure that the filters are fully inserted to the projector.



Filters

✔Note:

When reinserting this filter, be sure that the slit part is facing the outer side.



Filter Base

Air Filter

CAUTION

Do not operate the projector with the filters removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so may result in malfunction of the projector.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

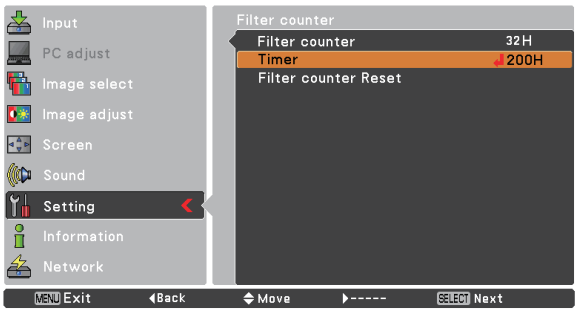
Be sure to reset the Filter counter after cleaning or replacing the filters.

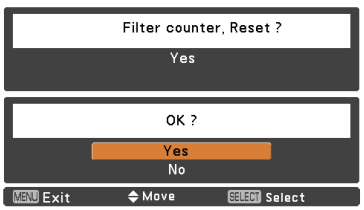
1 Press the MENU button to display the On-Screen Menu. Use the Point buttons to select **Setting** and then press the Point or SELECT button.

2 Use the Point buttons to select **Filter counte**r and then press the SELECT button. Use the Point buttons to select **Filter counter reset** and then press SELECT button. **Filter counter Reset?** appears. Select **Yes** to continue.

3 Another confirmation dialog box appears, select **Yes** to reset the Filter counter.

Filter counter





Filter counter , Reset? appears.

Select **Yes**, then another confirmation box appears.

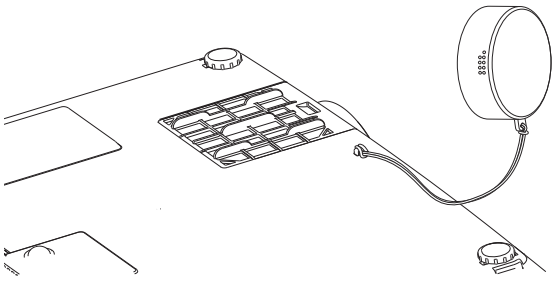
Select **Yes** again to reset the Filter counter.

Attaching the Lens Cover

When moving the projector or while it is not in use, replace the lens cap.

1 Thread the string through the hole on the lens cap and then tie a knot in the string to secure it in place.

2 To pass the other end of the string into the hole on the top of the projector and pull at it.

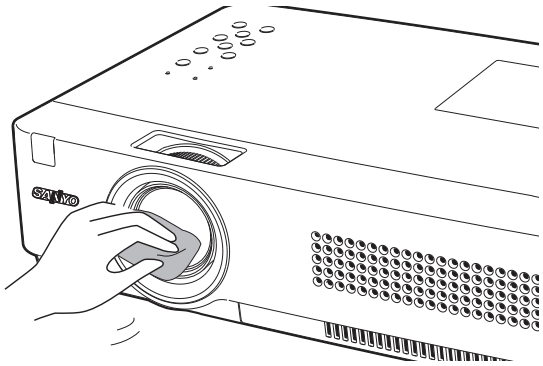


Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the surface of the lens.

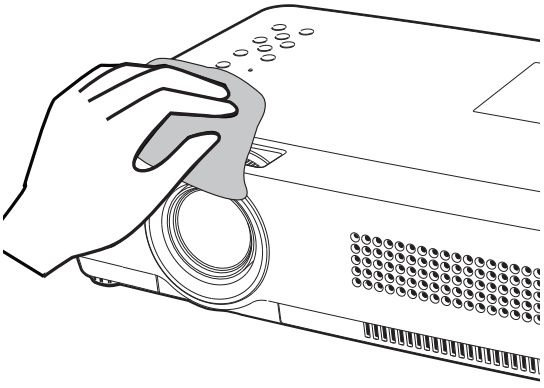


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



Lamp Replacement

Lamp replacement

WARNING:
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

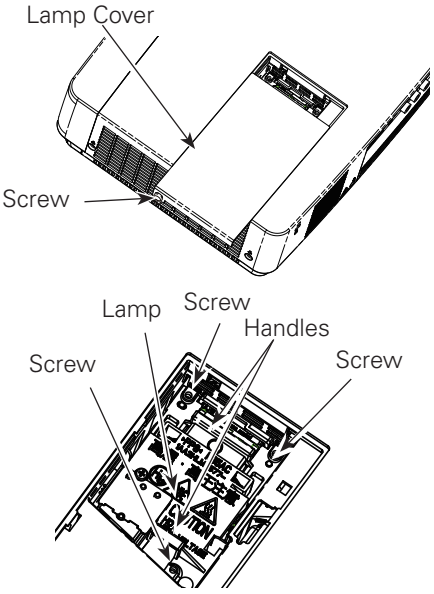
Procedure

1. Unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Loosen the screw and open the lamp cover.
3. Loosen the three (3) screws that secure the lamp. Lift the lamp out of the projector by using the handles.
4. Replace the lamp with a new one and secure the three (3) screws. Make sure that the lamp is set properly. Push the lamp cover and secure the screw.
5. Connect the AC power cord to the projector and turn on the projector.

Note
- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

ORDER REPLACEMENT LAMP

Type No.	**POA-LMP131**
Service Parts No.	**610 343 2069**



WARNING : TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

CAUTION

Allow a projector to cool for at least 45 minutes before you open the Lamp Cover. The inside of the projector can become very hot.

CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

CAUTION

When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken.
If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to "Air Filter Cleaning".

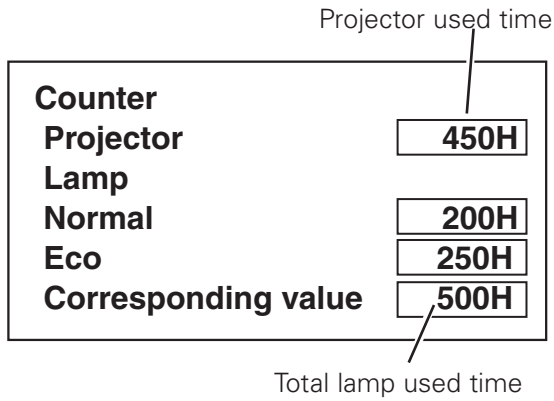
How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 2,500 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time = **T**eco + **T**normal x 1.25

Teco: used time in the Eco mode
Tnormal : used time in the Normal mode.

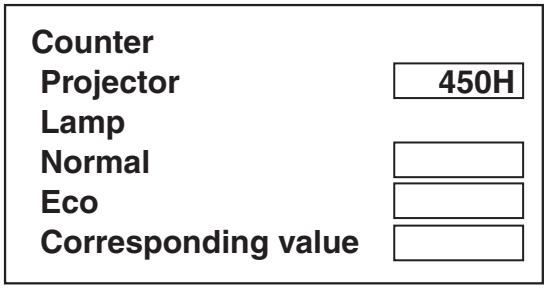
You can check the lamp used time following to the below procedure.

1 Press and hold the **ON/STAND-BY** button on the projector or the remote control for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



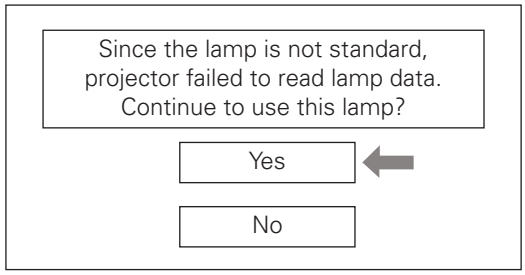
Note:

When non-standard lamp is used, lamp used time should not appear.



Warning Message on the non-standard lamp used

If the non-standard lamp is used, the warning and confirmation messages will appear on the screen every startup. Some of the functions are limited when the non-standard lamp is used in spite of the warning.



Security Function Notice

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo on the screen. Initial code: "4321"

Resetting procedure

1 Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button, connect the AC power cord into an AC outlet again.
3. Keep pressing the **SELECT** button and then press the **ON/STAND-BY** button.
4. Release the **ON/STAND-BY** button first and then release the SELECT button.
   - The PIN code lock and Logo PIN code lock will be reset as the initial PIN code at the factory and the key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Standby mode Notice

This function is available when operating the projector via network.

Network.....Supply the power to the network function even after turning off the projector. You can turn on/ off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.

Eco..... Select "Eco" when you do not use the projector via network. The projector's network function will stop when turning off the projector.

When "Eco" is selected, several functions will be restricted.

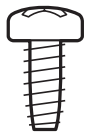
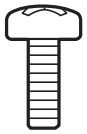
(Power consumption when standing by increases in the state of "Network".)

Restricted Function at the Eco mode

Function	Eco mode
Serial command control	X
Network Function	X
Monitor Out	X
Audio Out	X
On start	◯

Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1. Cabinet Top, Front, R/C Board removal

1. Loose screw A (M3x8) to remove the Lamp Cover.
2. Remove 5 screws B (M3x8) to remove the Cabinet Top.
3. Remove the Control Buttons and Dec Inlay LED.
4. Remove 3 screws C (M3x6) and screws D (T3x8) to remove the Cabinet Front.
5. Remove screw E (T3x6) to remove the R/C Board.
6. Remove 2 screws F (T3x6) ti remove the Dec Lens.

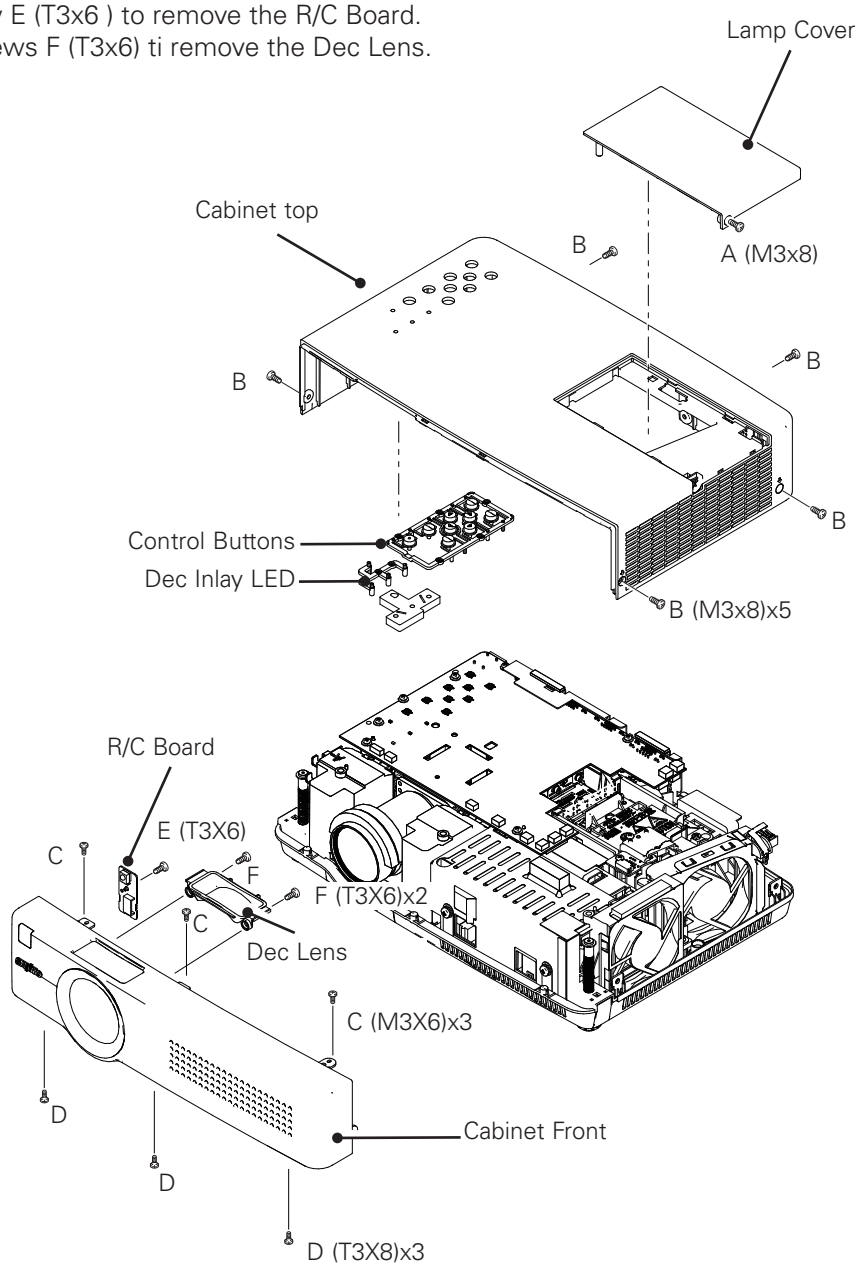


Fig.1

2. Main Board, AV Panel and Fan removal

1. Remove 5 screws A (M2.5x6) and 2 screws B (M4x4) to remove the Main Board.
2. Release the hooks to remove the AV Panel and remove 3 screws C (T3x6) to remove the AV Board.
3. Remove 3 screws D (T3X8) to remove the fans (FN902 and FN906).

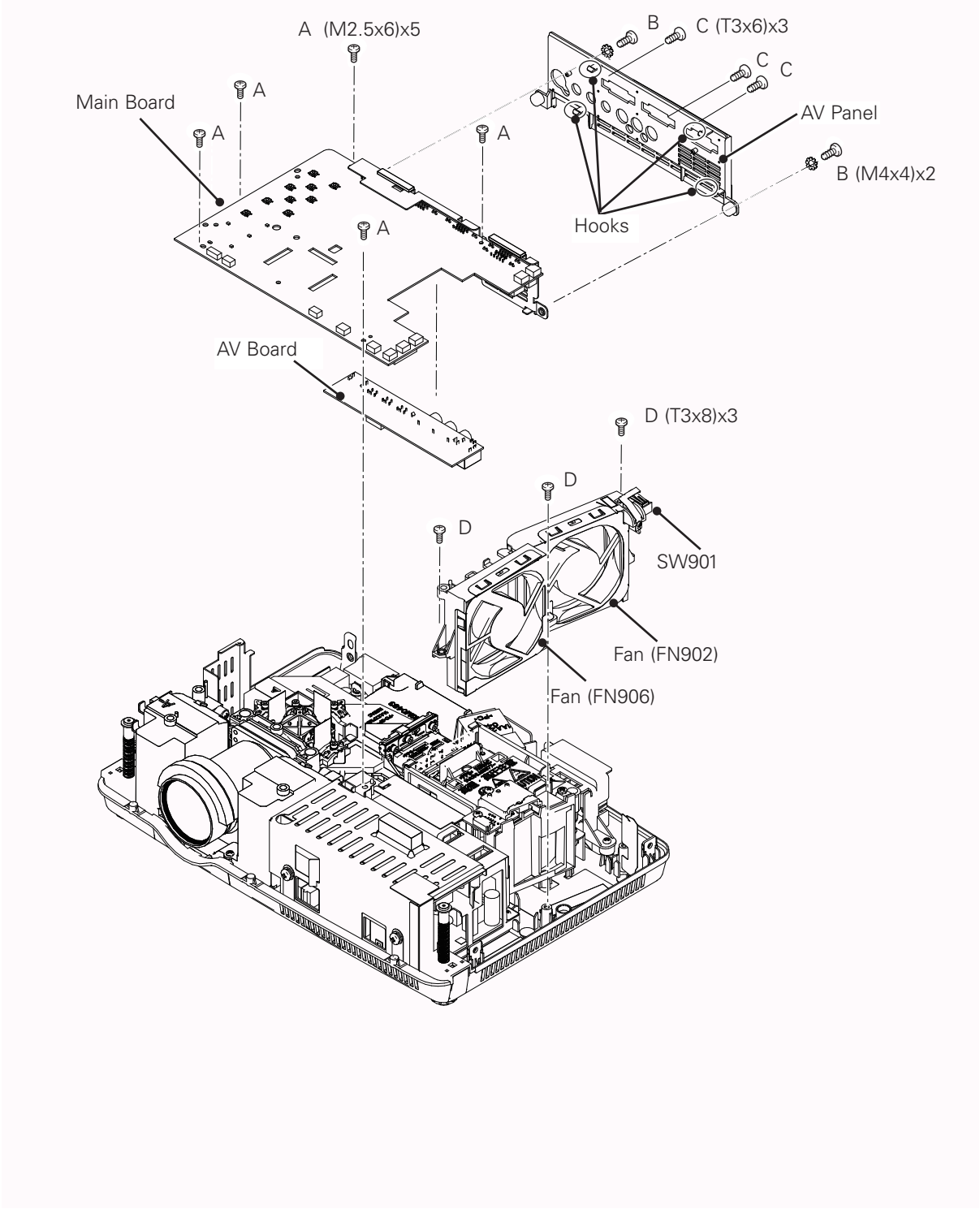


Fig.2

3. Speaker(SP901), Fan (FN901),Lamp Unit(LP900) and Optical Unit removal

1. Remove the 2 screws A (T3x8) to remove the speaker holder and the Speaker (SP901).
2. Remove 2 screws B (T3x8) and screw C (T3x12) to remove the fan (FN901).
3. Remove 3 screws D(M3x7) to remove the Lamp unit (LP900).
4. Remove the 2 screws E (T3x6) to remove the CONNECT ID board.
5. Remove the screw F (T3x8) to disconnect the Ballast socket.
6. Remove 5 screws G (T3x8) and 3 screws H(T3x8) to remove the Optical Unit and the Lamp holder.

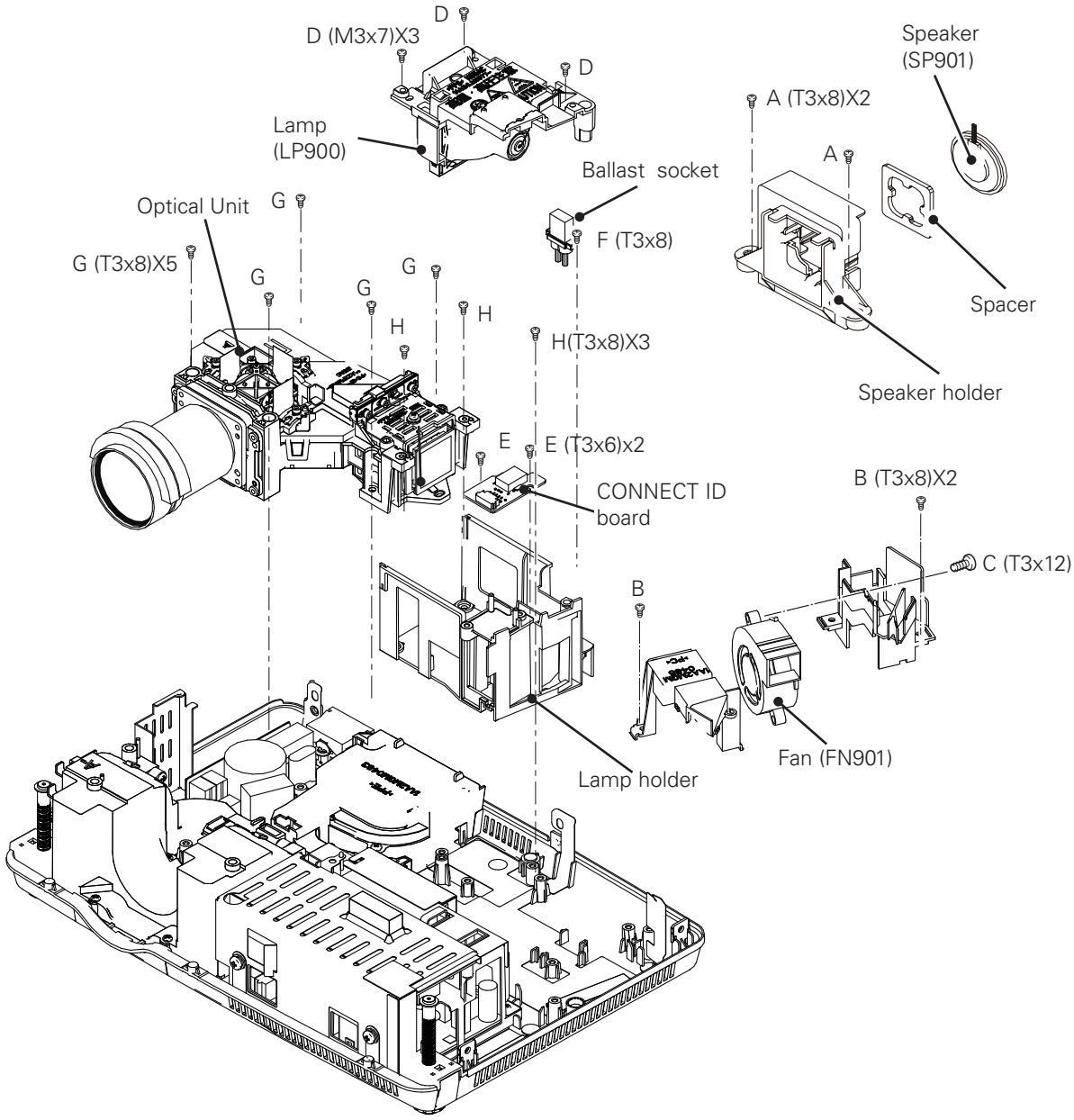


Fig.3

4. Power Board removal

1. Remove 3 screws A (T3x8), screw B (M3x8) and 3 screws C (M4x4) to remove the power board shield.
2. Remove the 2 screws D (T3x8) to remove the Ballast board.
3. Remove the power board holder. Loose the hooks to remove the Power board.

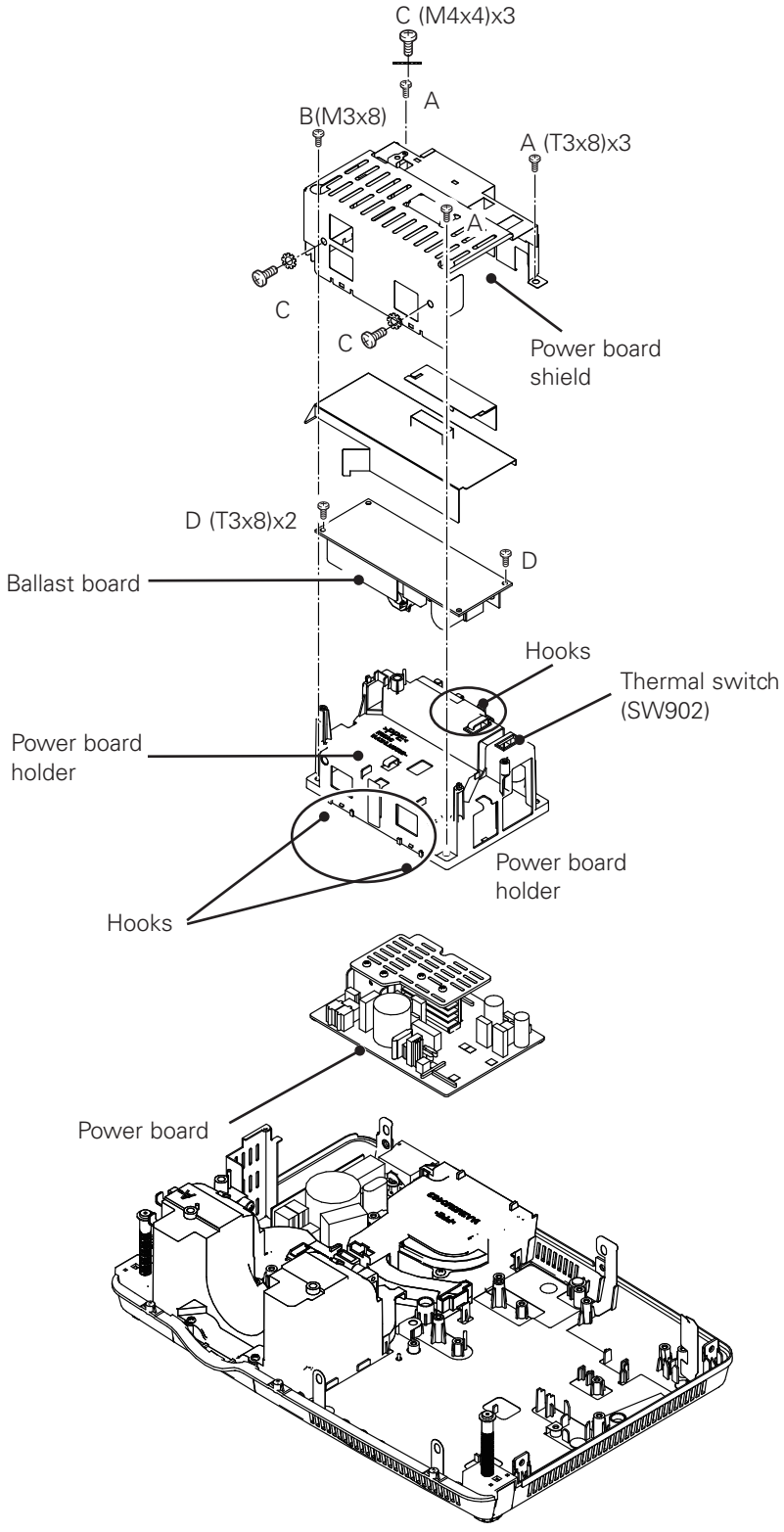


Fig.4

5. Mounting Duct, Fan(FN903, FN904, FN905) and Filter Board removal

1. Remove screw A (M4x4) , 2 screws B (T3x12) and 4screws C (T3x6) to remove the Mounting duct top, Mounting duct bottom and fan (FN904).
2. Remove 2 screws D (T3x12) to remove the fans (FN903 and FN905).
3. Remove screw E (T3x8) and screw F (M3X8) to remove the Left side shield.
4. Remove 2 screws G (T3x8) to remove the filter board.
5. Remove the Air filters.

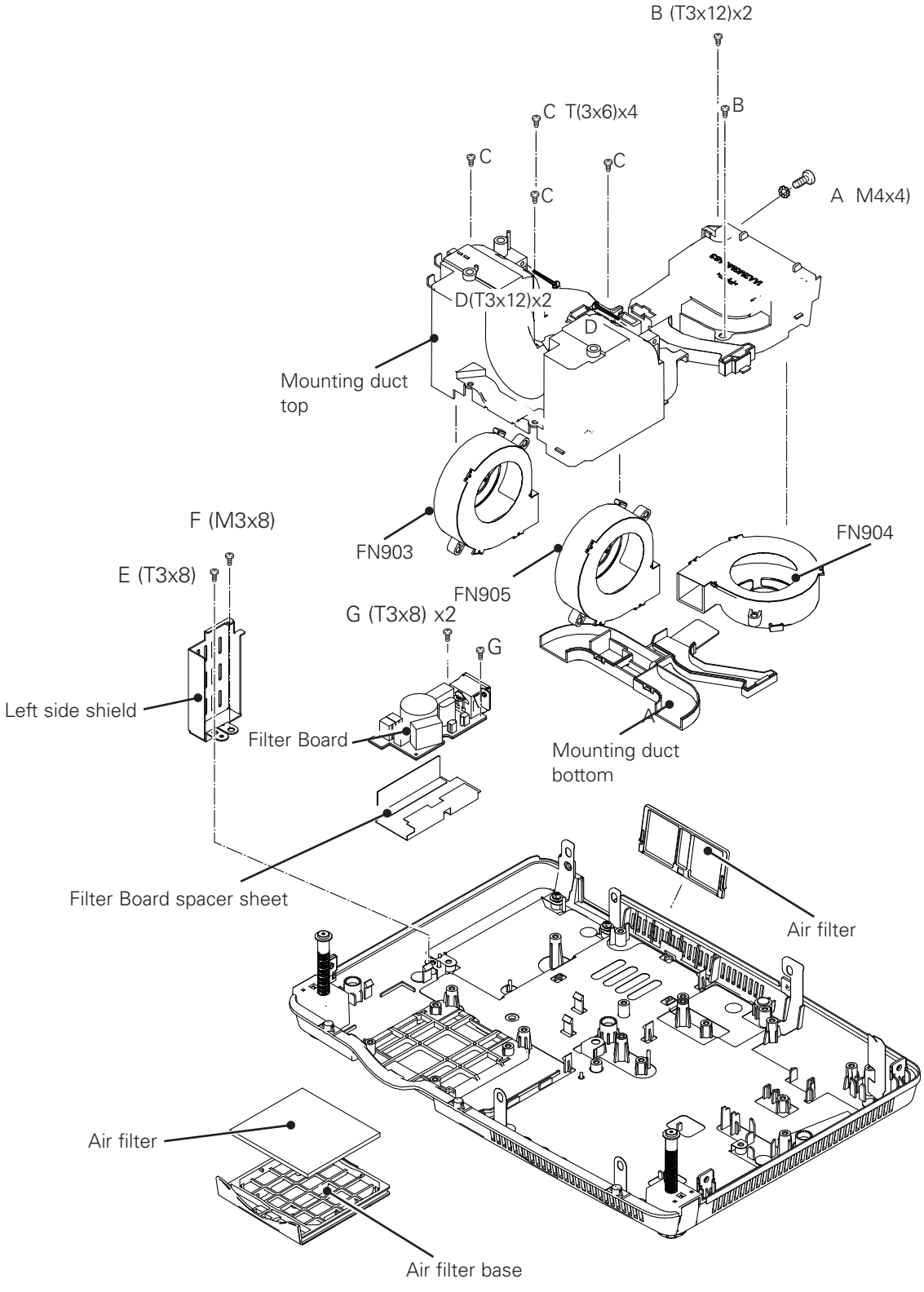


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Main Board and the Network board following to the "Mechanical Disassembly".
Disassembly requires a 2.0mm hex wrench.

1. Projection lens disassembly

Note: The optical unit should be removed from the cabinet bottom before removing the projection lens.

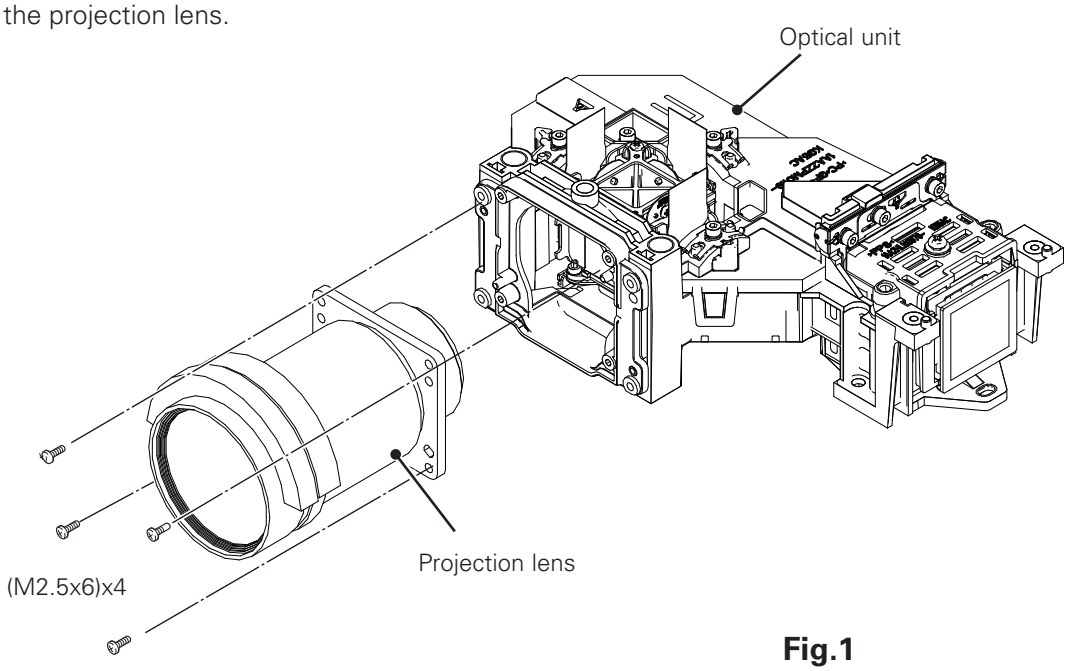


Fig.1

2. Integrator lens-in disassembly

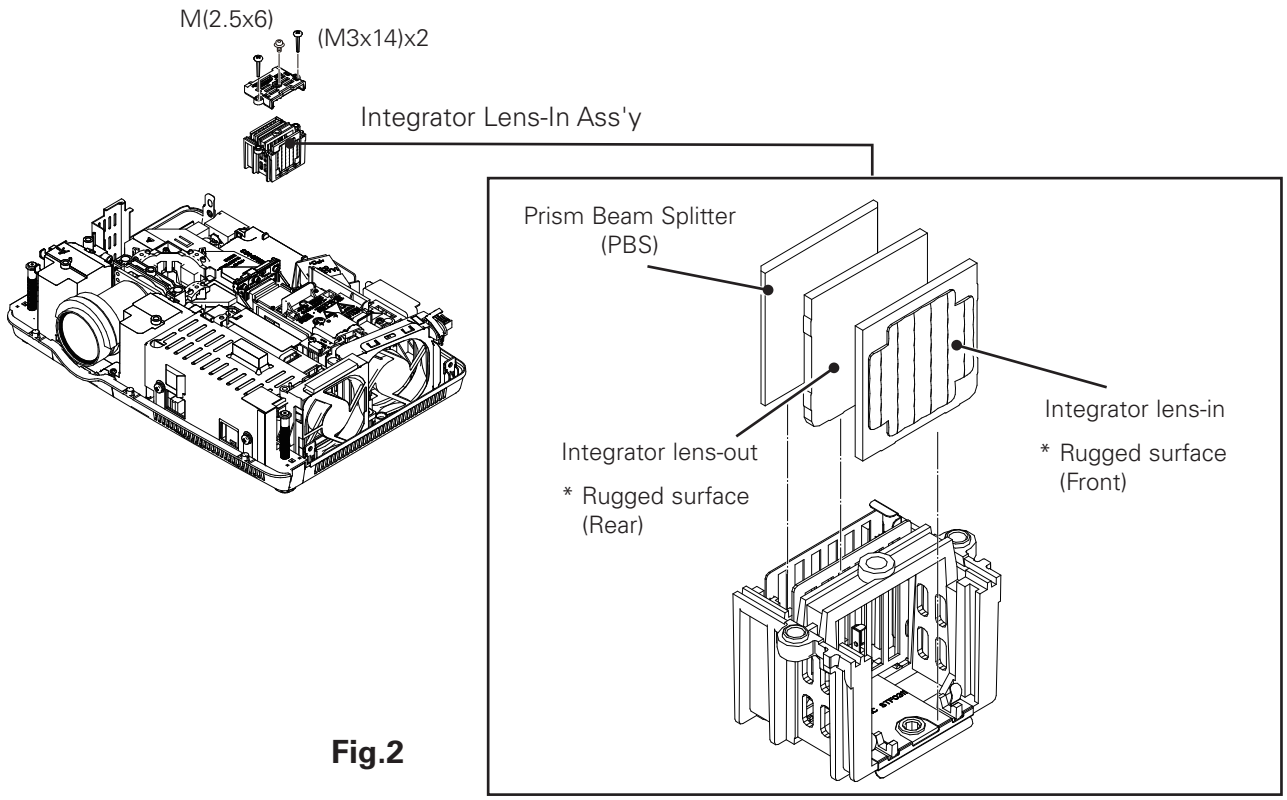


Fig.2

3. LCD Panel/Prism Ass'y removal

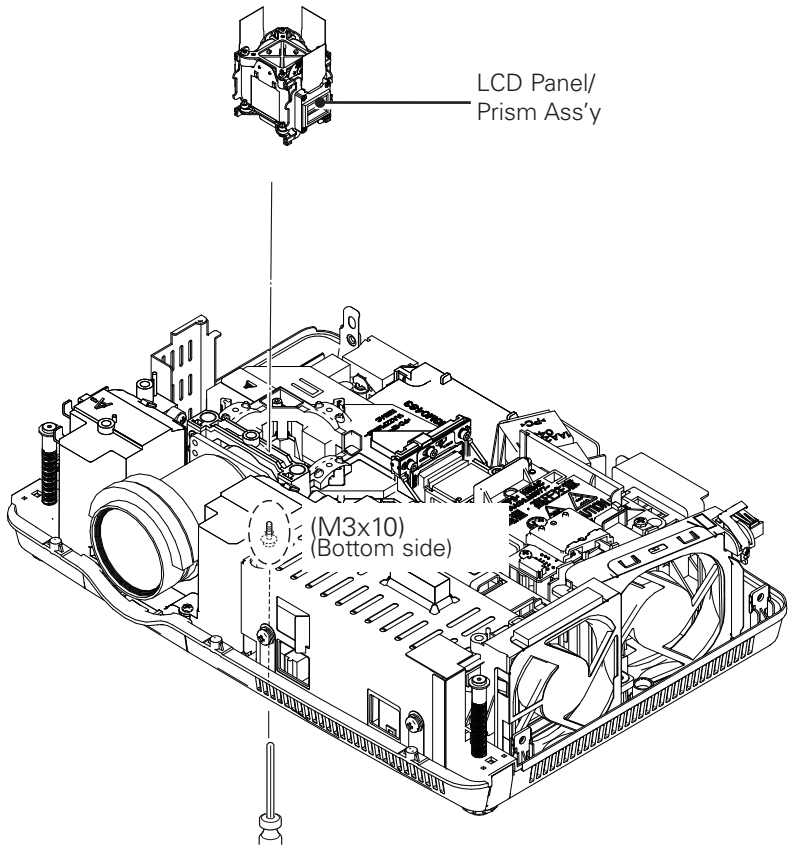


Fig.3-1

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

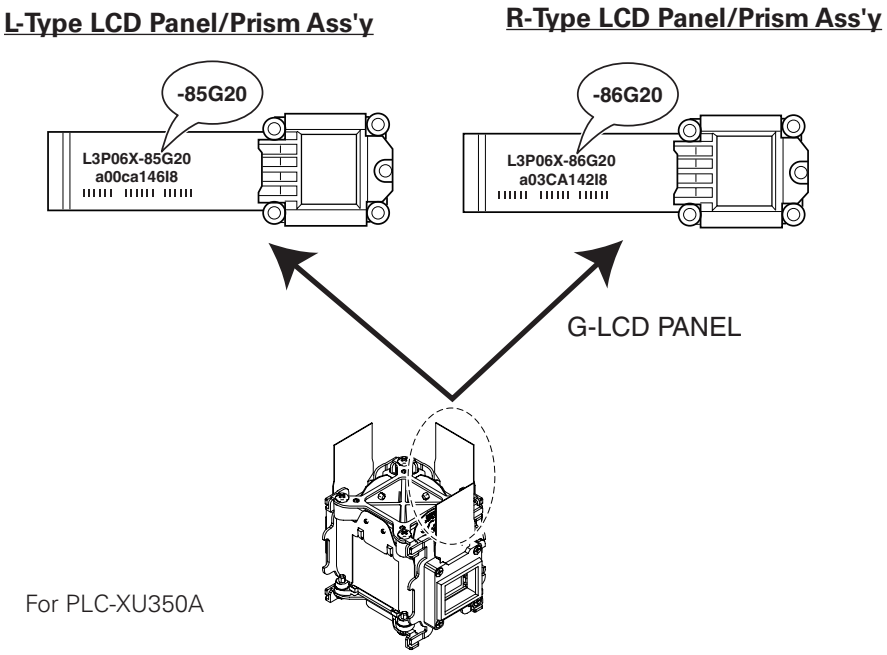
- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance adjustment" , "Gamma adjustment" and "Common Center adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

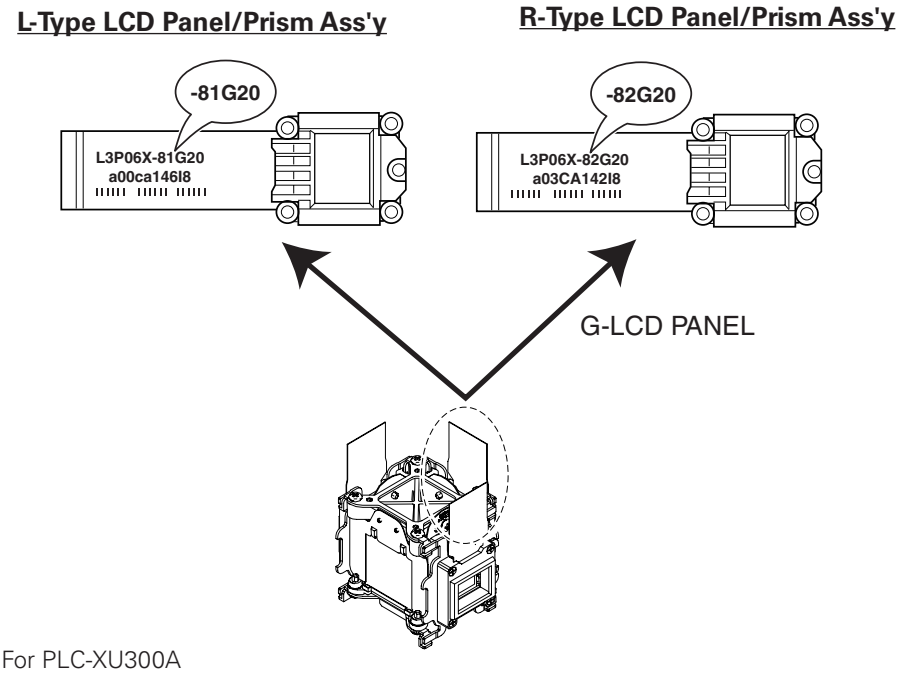
Panel Type Check

There are 2 types of LCD Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below.
When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD Panel/Prism Ass'y.
The gamma-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

How to check the type of LCDPanel/Prism Ass'y
Check the printed number on the flat cable of the G-LCD Panel.



For PLC-XU350A



For PLC-XU300A

Fig.3-2

4. Polarized glass-in disassembly

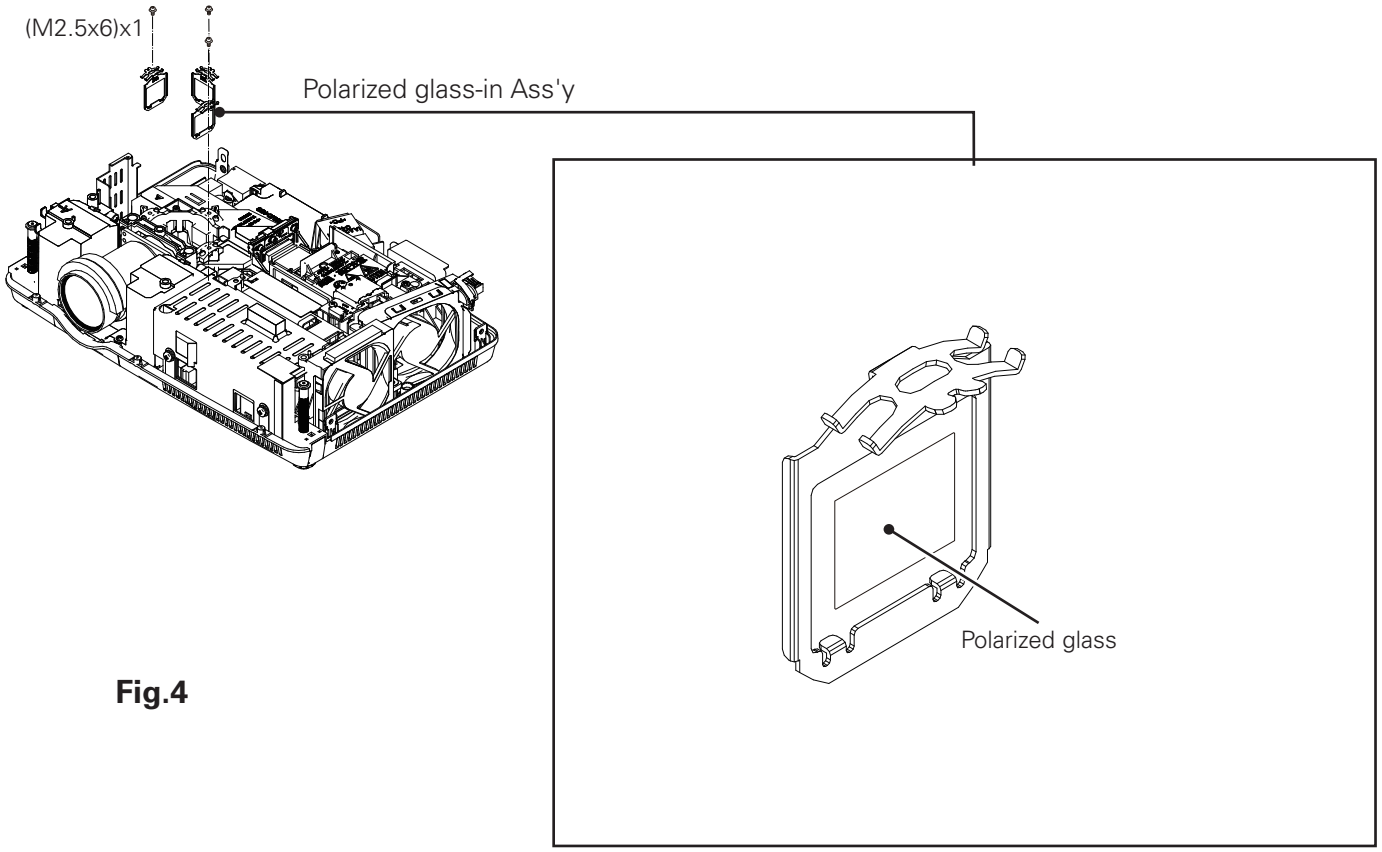
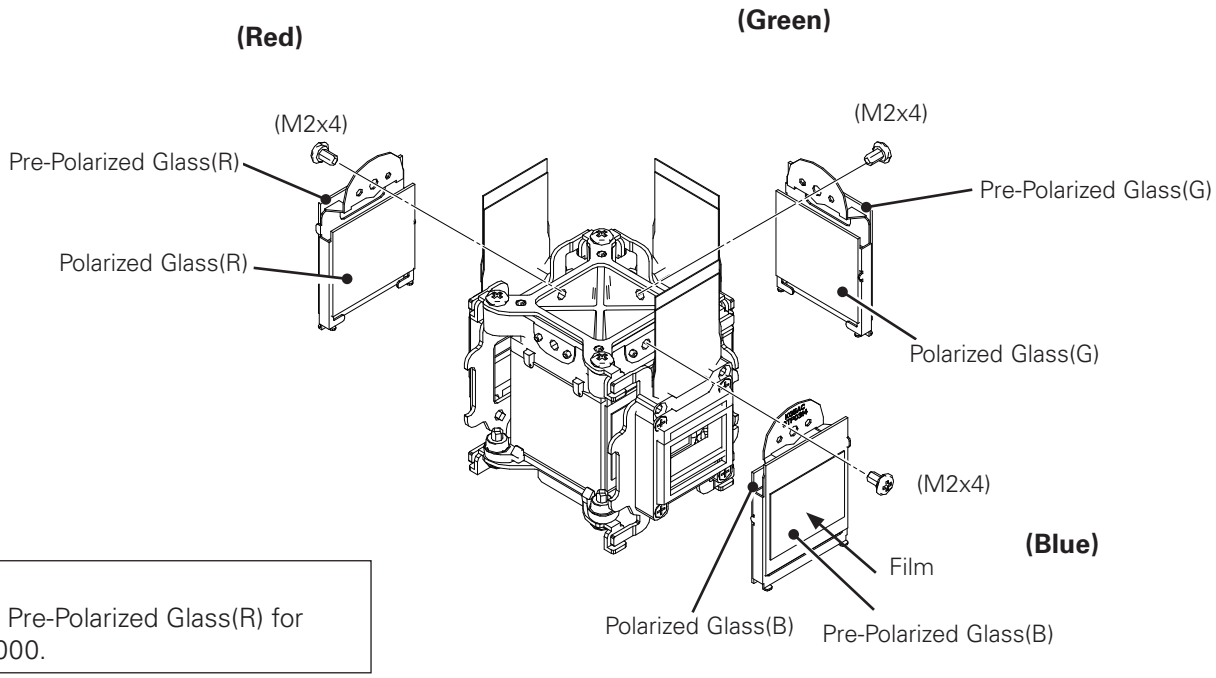


Fig.4

5. Polarized glass, Pre-polarized glass removal

* Mount the polarized glasses as the film attached side faces the LCD panel side.



*** Note:**
There is no Pre-Polarized Glass(R) for KA5-XU30000.

Fig.5

6. Optical unit top removal

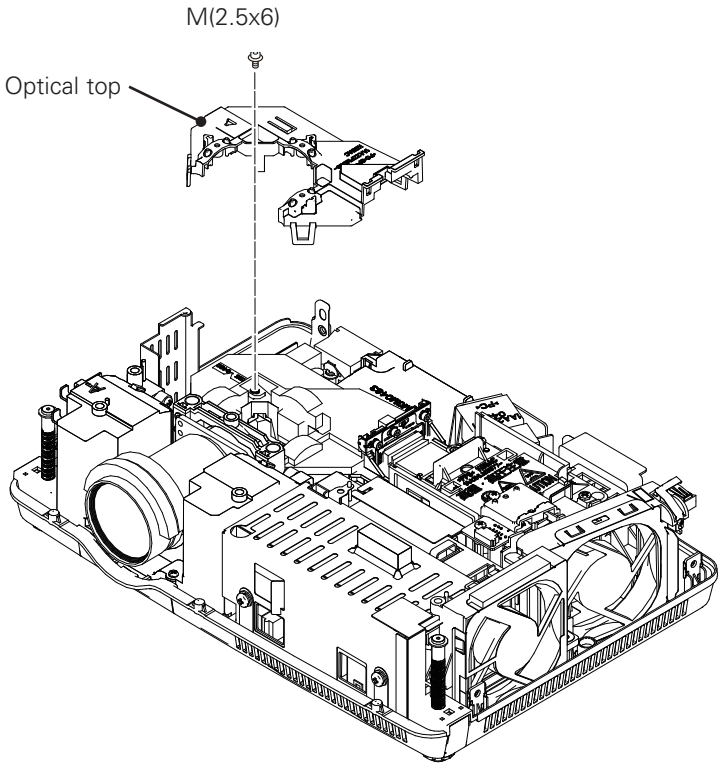


Fig.6

7. Relay lens disassembly

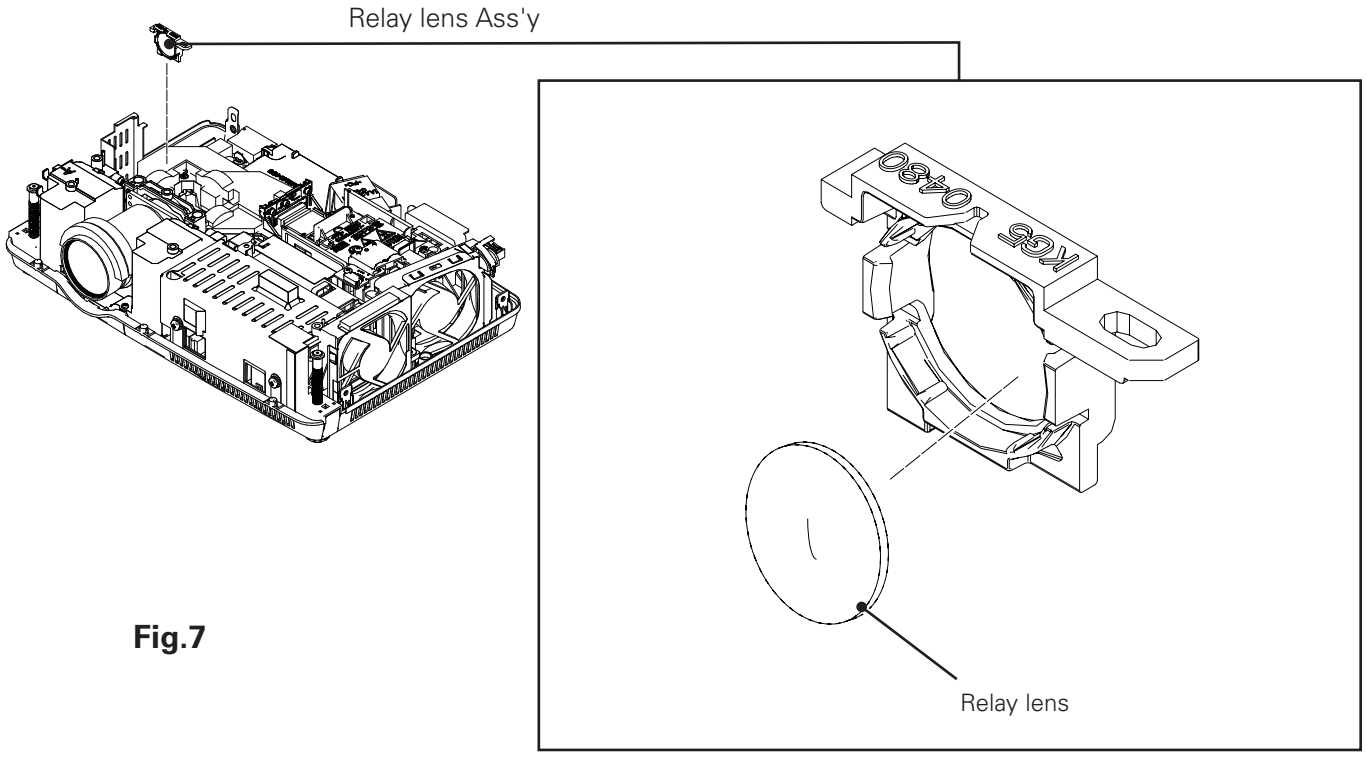


Fig.7

8. Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (IN)
2	Integrator lens (OUT)
3	Prism beam splitter (PBS)
4	Condenser lens (OUT)
5	Dichroic mirror (B)
6	Dichroic mirror (G)
7	Condenser lens (G)
8	Mirror (R)
9	Relay lens (IN)
10	Condenser lens (R)
11	Condenser lens (B)
12	Mirror (B)

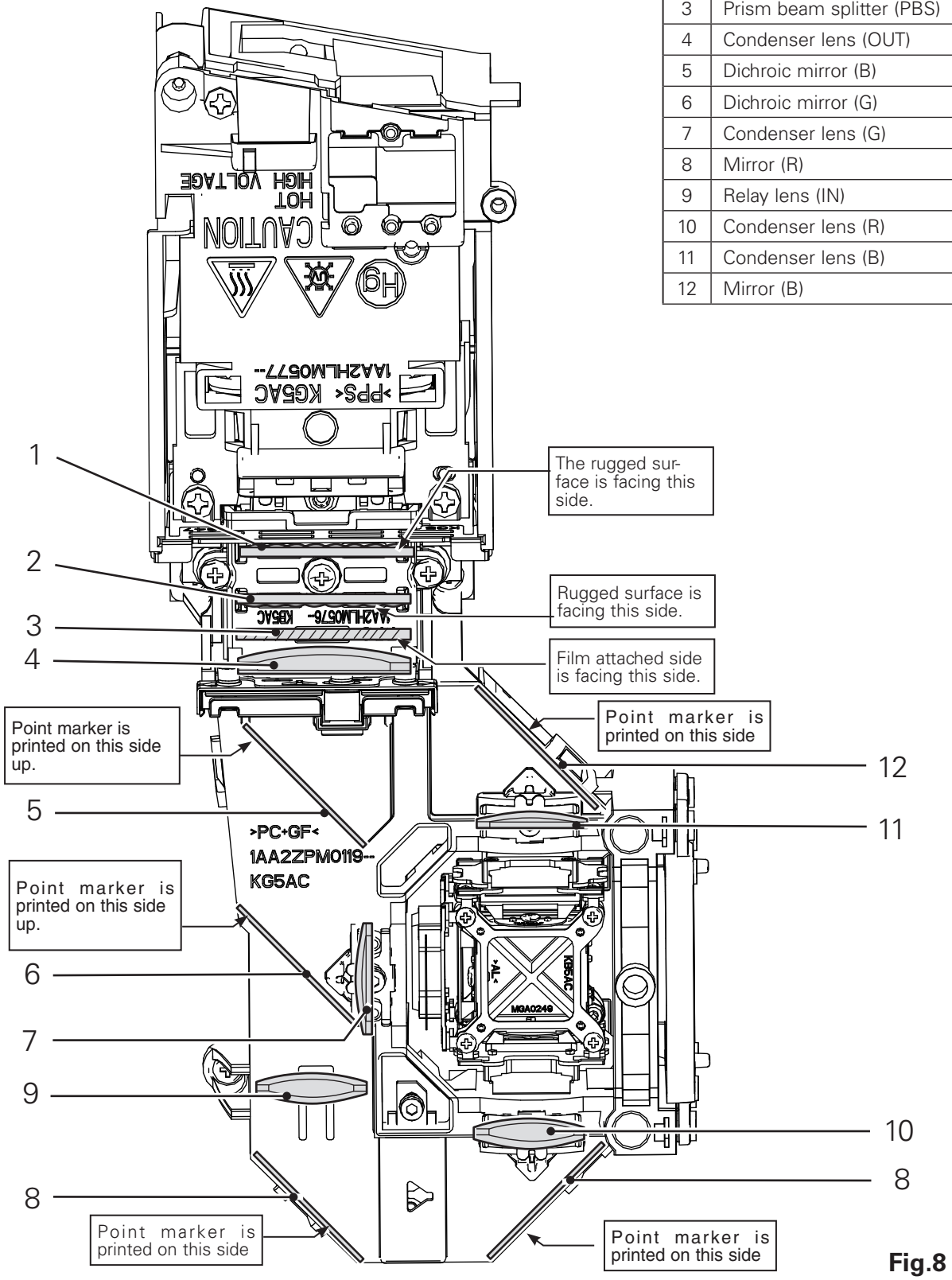


Fig.8

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts					
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized Glass G	Power Board	Main Board
Optical Adjustments	Contrast Adjustment						
	G-Contrast adjustment	❍			●		
	Integrator lens adjustment	❍	●				
	Relay lens-out adjustment	❍		●			
Electrical Adjustments	Fan control adjustment					●	●
	Reference voltage adjusment						●
	Panel type check and setting	●					●
	Auto calibration adjustment [PC]						●
	Auto calibration adjustment [Component]						●
	Auto calibration adjustment [Video]						●
	Common center adjustment	●					●
	50% white adjustment [PC]	●					●
	White balance adjustment [PC]	❍					❍
	50% white adjustment [Video]	●					●
	White balance adjustment [Video]	❍					❍
	White uniformity adjustment	❍					❍
	Keystone offset adjustment						●

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassembly".
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A (Fig.1)** on the polarized glass mounting base which you intend to adjust.
2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a hex screwdriver.
3 Tighten the screw **A** to fix the polarized glass mounting base.

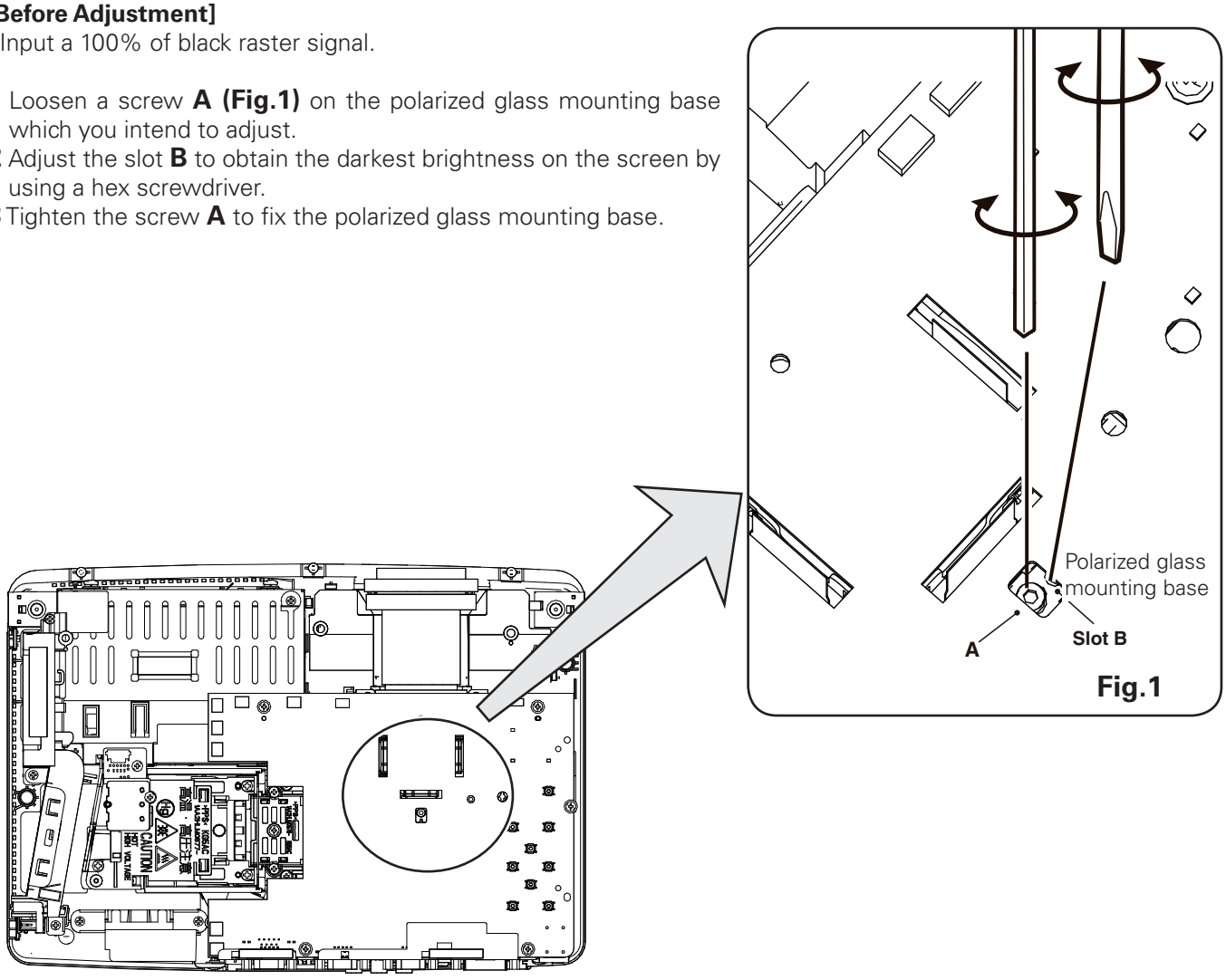
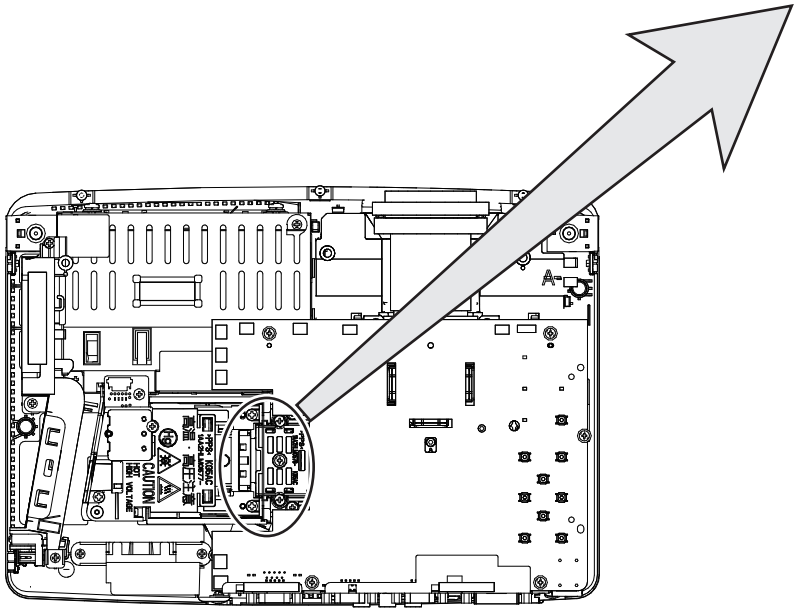


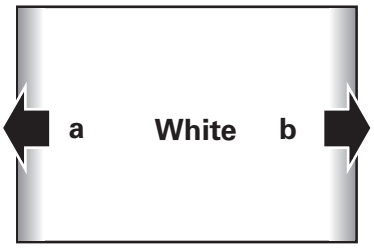
Fig.1

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slots **D** to make color uniformity in white by using a slot screwdriver
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.





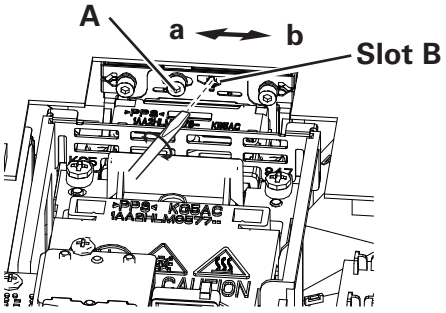
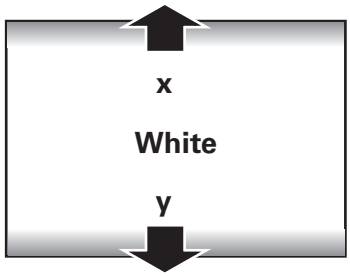


Fig.2-1
Moving of slot B



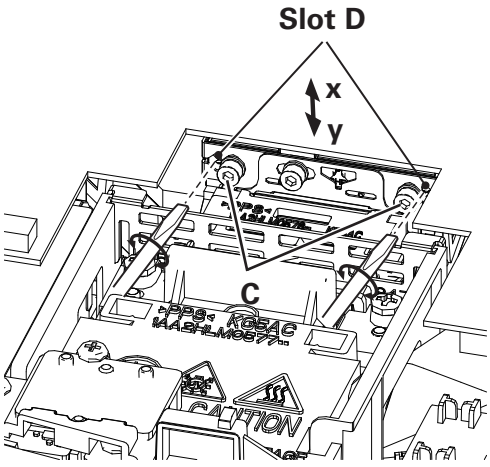


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A** by using a hex screwdriver, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screw **A** to fix the relay lens unit.

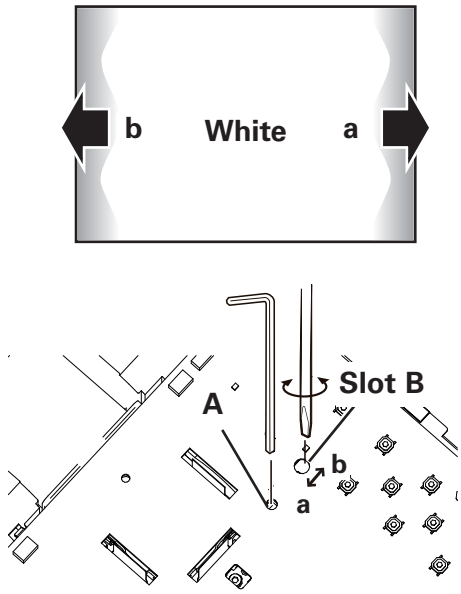
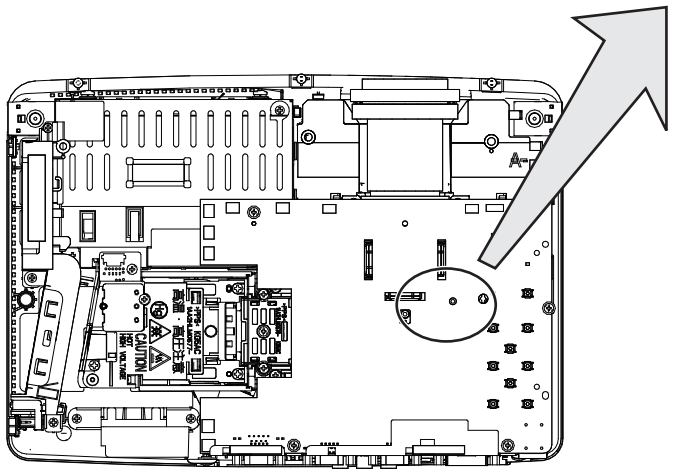


Fig.3
Moving of slot B



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

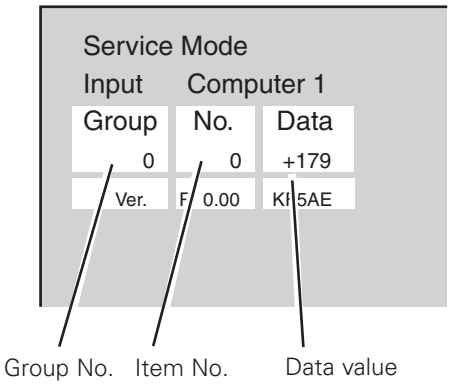
To enter the "Service Mode", press and hold the **MENU button** and **SELECT button** on the projector for more than 3 seconds or press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

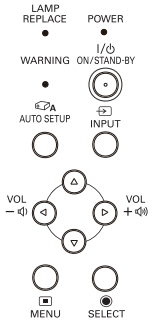
To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer ▲ or ▼ **button**, and change the data value by pressing the ◀ or ▶ **button**. Refer to the "Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.





Memory IC (IC1371) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the "Electrical Adjustments".

● **Caution to memory IC replacement**

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

● **Caution of Main Board replacement (in the case memory IC is not defective)**

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal

Video signal .....1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Component Video signal .....1.0Vp-p/75Ω terminated, 8 color 100% color bar or 16 step gray scale (Component video signal)

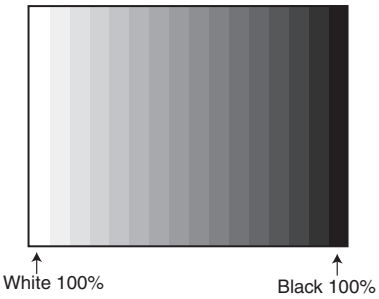
Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

- Image control mode.....“STANDARD” mode unless otherwise noted.

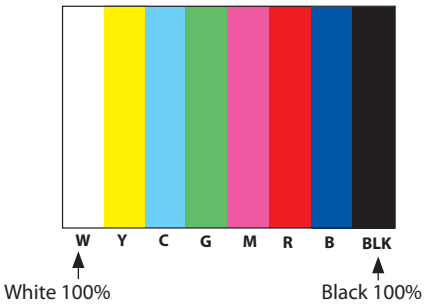
Note:

* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

16 steps gray scale pattern



8 color 100% color bar



Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to RED WIRE (+) and BLACK WIRE (-).
2. Adjust the voltage by using VR621 as following.

AC Input	Reading
230V	374V ±1V

Caution:
Be sure to connect the lamp when taking this adjustment.
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
   Select group no. "**290**", item no. "**0**". Check the data value as follows;
   Data value: 0 For L-Type of LCD Panel
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
   Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

Note:

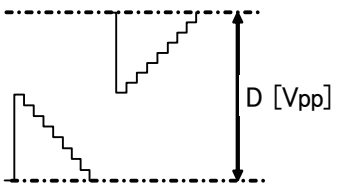
Be careful to take this adjustment. The value of gamma adjustment data will be reset and cannot be restored if you change the mode of LCD panel type.

2. Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**250**", item no. "**0**" and change data value to adjust voltage to be **5.0 ±0.1V**.
3. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select item no. "**1**" and change data value to adjust voltage to be **13.5 ±0.1V**.
4. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**2**" and change data value to adjust voltage to be **4.5 ±0.1V**.
5. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**3**" and change data value to adjust voltage to be **13.5 ±0.1V**.
6. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**4**" and change data value to adjust voltage to be **5.0 ±0.1V**.
7. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**5**" and change data value to adjust voltage to be **13.5 ±0.1V**.

3 .Reference Voltage Adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer 1 [RGB]** mode.
3. Select group no. "**101**", item no. "**12**" to adjust the voltage of **TP_VMIDG** to be **7.00 ±0.01V**.
4. Select group no. "**101**", item no. "**14**" to adjust the voltage of **TP35G** to make the amplitude "**D[Vpp]**" to be **10.00 ±0.05V**.



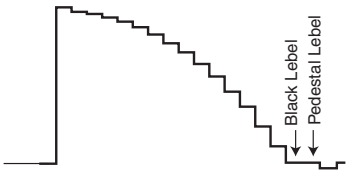
4. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

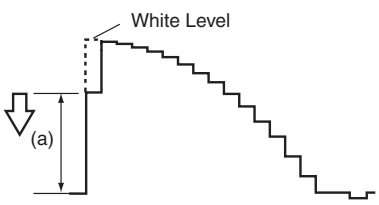
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



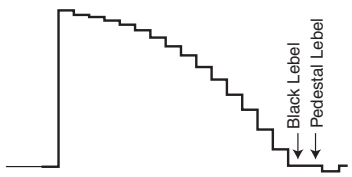
5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 8 color 100% color bar 480i-component signal with **Computer2 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

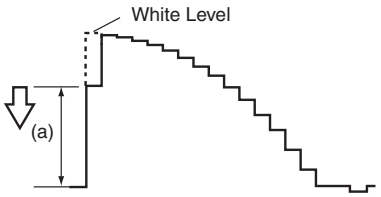
Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer2 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TP35R**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer2 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



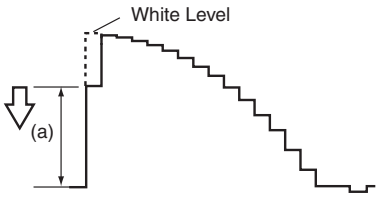
6. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.

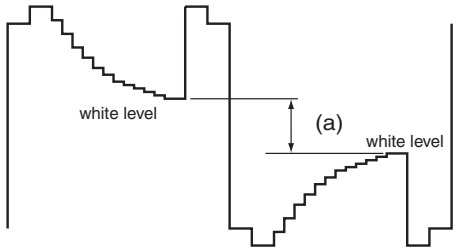


7. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no." **100**", item no." **92**" and change data value to" **2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no." **101**", item no." **1**" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no." **0**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no." **2** and change data value to obtain the minimum flicker on the screen.
10. Select group no." **100**", item no." **92**" and change data value to" **0**" to reset the panel frequency.

8. 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **1.6 ±0.1 V**.



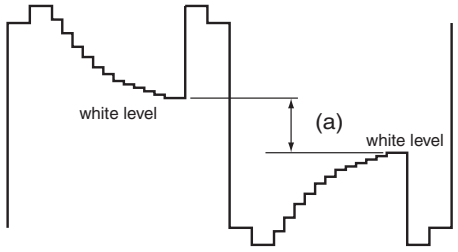
9. White Balance adjustment [PC]

1. Enter the service mode,
2. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

10. 50% White adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**100**", item no. "**6**" and change data value to adjust amplitude "**a**" to be **1.6 ±0.1V**.



11.White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Select group no. "**100**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

12.Keystone Offset adjustment

After replacing the G-sensor circuit (IC3851) or Memory IC (IC1371), readjust the Keystone Offset adjustment as follows.

1. Put the projector on a horizontal place with the adjustable feet being minimum range and then enter the service mode.
2. Select group no." **102**", item no." **3**" and set data value from" **0**" to" **5**".
3. By pressing the **SELECT** button, the Keystone Offset adjustment will start.
4. When it has completed, the "OK" message will appear on the screen.
5. By pressing any button on the projector or the remote control, the "OK" message will disappear. (Data value of Group no." 102", item no." 3" will be back from" 5" to" 0" for initial value.)

Color Shading Correction adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "COLOR SHADING CORRECTION" software supplied separately.
The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

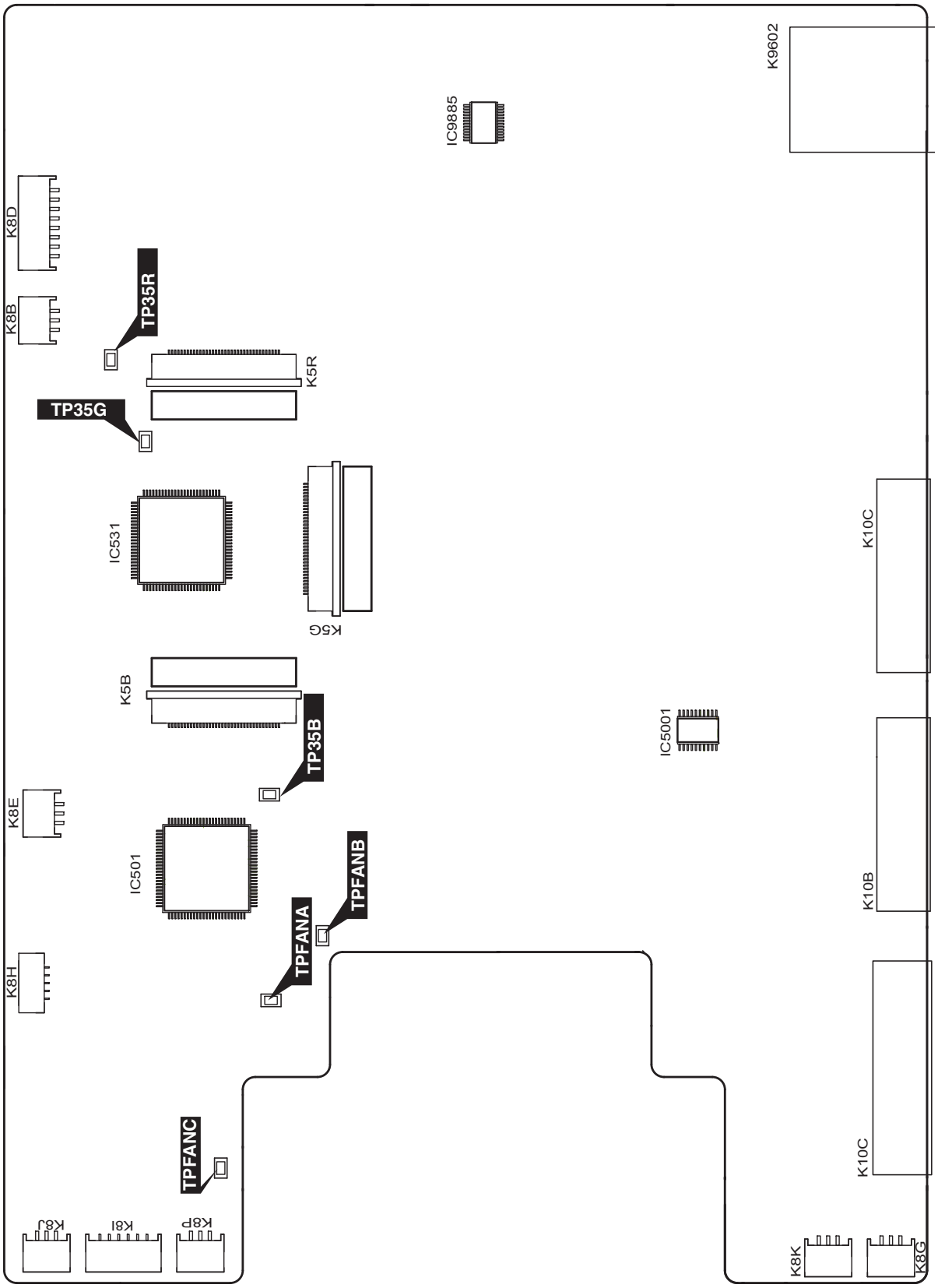
4-input patterns:
6.25% gray, 12.5% gray, 25% gray, 50% gray

The Color Shading Correction can be ordered with following service code.

COLOR SHADING CORRECTION Ver. 4.00	
Service Parts No.	645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with" ✻" are required to readjust following to the" Electrical adjustments". Other items should be used with the initial data value.

Group/ Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW190)**				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhould	6 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	**Sync Processor**				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 tansition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 tansition	0x700	0 - 9999	
Group 20	**Video Decoder** *R : Read Only Value				
0	Y Level	Composite / S-Video -Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	**Deinterlacer setting** Effective only for Progressive ON-L1 mode.				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	**Deinterlacer setting** Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	**Deinterlacer setting** Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	**Noise Reduction (Time)** Effective only for N.R - Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	**2:3pull down setting**				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	**Image**				
0	Center Contrast		512/556/534/534/492/492	0 - 1023	
1	Center Brightness		512/480/512/500/512/512	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
2	Center Color		512/534/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		115/115/115/115/115/115	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 100	**Panel Service**				
0	G-SubGain		2048/2064/2000/2000/1950/1950/1830/1900	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
1	R-SubGain		2048/2064/2000/2000/1850/2048/1950/2048	0-4095	
2	B-SubGain		2048/2064/2000/2000/2048/2000/2048/2048	0-4095	
3	G-SubBright		0/0/24/32/0/0/0/0	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
4	R-SubBright		0/0/24/40/0/32/0/32	0-4095	
5	B-SubBright		0/0/24/32/16/0/50/32	0-4095	
6	G-GammaShift		0	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		0	0-4095	
8	B-GammaShift		0	0-4095	
9	G-ReferH		4000/4000	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		1048/1048	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		4000/4000	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		1048/1048	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		4000/4000	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		1048/1048	0-4095	Scan Direction (Front/Rear)
15	DXOutR		234	0-1023	
16	DXOutG		234	0-1023	
17	DXOutB		234	0-1023	
18	H_Change_Pos		30	0-255	
19	SH_Base		273	0-4095	
20	NRG_Pos		42	0-127	
21	NRG_Width		31	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-9	
24	GammaCtrl		1	0-1	
25	REF_GatePos		30	0-1023	
26	REF_GateDur		130	0-1023	
27	R-BasePos		8	0-15	
28	G-BasePos		8	0-15	
29	B-BasePos		8	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=256[0<->256<->512<->768<->1023]

Group/ Item	Item Name	Function	Initial	Range	Note
32	LineR0		0	0-1023	(MIN<–>MAX Cyclic Operation)
33	LineR1		0	0-1023	(MIN<–>MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<–>MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<–>MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<–>MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<–>MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<–>MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<–>MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<–>MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<–>MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<–>MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<–>MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<–>MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<–>MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<–>MAX Cyclic Operation)
47	GhostR-Pos		8	0-31	
48	GhostG-Pos		8	0-31	
49	GhostB-Pos		8	0-31	
50	GhostR-Cent		0	0-2047	
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		0	0-2047	
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<–>MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<–>MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<–>MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<–>MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<–>MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<–>MAX Cyclic Operation)
65	ReverceR		0	0-2047	(MIN<–>MAX Cyclic Operation)
66	ReverceG		0	0-2047	(MIN<–>MAX Cyclic Operation)
67	ReverceB		0	0-2047	(MIN<–>MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		277/276	0-1023	(XU300A/XU350A)
79	R-Mid2		458/452	0-1023	(XU300A/XU350A)
80	R-Mid1		586/584	0-1023	(XU300A/XU350A)
81	R-Max		686/684	0-1023	(XU300A/XU350A)
82	G-Min		277/276	0-1023	(XU300A/XU350A)
83	G-Mid2		458/452	0-1023	(XU300A/XU350A)
84	G-Mid1		586/584	0-1023	(XU300A/XU350A)
85	G-Max		686/684	0-1023	(XU300A/XU350A)
86	B-Min		277/276	0-1023	(XU300A/XU350A)
87	B-Mid2		458/452	0-1023	(XU300A/XU350A)
88	B-Mid1		586/584	0-1023	(XU300A/XU350A)
89	B-Max		686/684	0-1023	(XU300A/XU350A)
90	H-OutPos		108	0-2047	
91	OutAreaLv		2048/0	0-4095	(XU300A/XU350A)
92	FlickerAdj		0	0/2	not used
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		0	0-2047	
95	FrontCTalkR-Start		125/126	0-255	(XU300A/XU350A)
96	FrontCTalkR-End		127/128	0-255	(XU300A/XU350A)
97	FrontCTalkG-Cent		0	0-2047	
98	FrontCTalkG-Start		125/126	0-255	(XU300A/XU350A)
99	FrontCTalkG-End		127/128	0-255	(XU300A/XU350A)
100	FrontCTalkB-Cent		0	0-2047	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
101	FrontCTalkB-Start		125/126	0-255	(XU300A/XU350A)
102	FrontCTalkB-End		127/128	0-255	(XU300A/XU350A)
103	R-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
104	R-DCOffset-N1		0/0	0-2047	Scan Direction (Front/Rear)
105	R-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
106	R-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
107	R-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
108	R-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
109	R-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
110	R-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
111	R-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
112	R-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
113	R-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
114	R-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
115	R-DCOffset-N12		0/0	0-2047	Scan Direction (Front/Rear)
116	G-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
117	G-DCOffset-N1		0/0	0-2047	Scan Direction (Front/Rear)
118	G-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
119	G-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
120	G-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
121	G-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
122	G-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
123	G-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
124	G-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
125	G-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
126	G-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
127	G-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
128	G-DCOffset-N12		0/0	0-2047	Scan Direction (Front/Rear)
129	B-DCOffset-NGain		0/0	0-1023	Scan Direction (Front/Rear)
130	B-DCOffset-N1		0/0	0-2047	Scan Direction (Front/Rear)
131	B-DCOffset-N2		0/0	0-2047	Scan Direction (Front/Rear)
132	B-DCOffset-N3		0/0	0-2047	Scan Direction (Front/Rear)
133	B-DCOffset-N4		0/0	0-2047	Scan Direction (Front/Rear)
134	B-DCOffset-N5		0/0	0-2047	Scan Direction (Front/Rear)
135	B-DCOffset-N6		0/0	0-2047	Scan Direction (Front/Rear)
136	B-DCOffset-N7		0/0	0-2047	Scan Direction (Front/Rear)
137	B-DCOffset-N8		0/0	0-2047	Scan Direction (Front/Rear)
138	B-DCOffset-N9		0/0	0-2047	Scan Direction (Front/Rear)
139	B-DCOffset-N10		0/0	0-2047	Scan Direction (Front/Rear)
140	B-DCOffset-N11		0/0	0-2047	Scan Direction (Front/Rear)
141	B-DCOffset-N12		0/0	0-2047	Scan Direction (Front/Rear)
142	R-DCOffset-PGain		0/0	0-1023	Scan Direction (Front/Rear)
143	R-DCOffset-P1		0/0	0-2047	Scan Direction (Front/Rear)
144	R-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
145	R-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
146	R-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
147	R-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
148	R-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
149	R-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
150	R-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
151	R-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
152	R-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
153	R-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
154	R-DCOffset-P12		0/0	0-2047	Scan Direction (Front/Rear)
155	G-DCOffset-PGain		0/0	0-2013	Scan Direction (Front/Rear)
156	G-DCOffset-P1		0/0	0-2047	Scan Direction (Front/Rear)
157	G-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
158	G-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
159	G-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
160	G-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
161	G-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
162	G-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
163	G-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
164	G-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
165	G-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
166	G-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
167	G-DCOffset-P12		0/0	0-1023	Scan Direction (Front/Rear)
168	B-DCOffset-PGain		0/0	0-1023	Scan Direction (Front/Rear)
169	B-DCOffset-P1		0/0	0-2047	Scan Direction (Front/Rear)

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
170	B-DCOffset-P2		0/0	0-2047	Scan Direction (Front/Rear)
171	B-DCOffset-P3		0/0	0-2047	Scan Direction (Front/Rear)
172	B-DCOffset-P4		0/0	0-2047	Scan Direction (Front/Rear)
173	B-DCOffset-P5		0/0	0-2047	Scan Direction (Front/Rear)
174	B-DCOffset-P6		0/0	0-2047	Scan Direction (Front/Rear)
175	B-DCOffset-P7		0/0	0-2047	Scan Direction (Front/Rear)
176	B-DCOffset-P8		0/0	0-2047	Scan Direction (Front/Rear)
177	B-DCOffset-P9		0/0	0-2047	Scan Direction (Front/Rear)
178	B-DCOffset-P10		0/0	0-2047	Scan Direction (Front/Rear)
179	B-DCOffset-P11		0/0	0-2047	Scan Direction (Front/Rear)
180	B-DCOffset-P12		0/0	0-2047	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_SETP_0		24/22	0-1023	(XU300A/XU350A)
186	R_V_INPUT_SETP_512		20/18	0-1023	(XU300A/XU350A)
187	R_V_INPUT_SETP_1024		16/14	0-1023	(XU300A/XU350A)
188	R_V_INPUT_SETP_1536		12/10	0-1023	(XU300A/XU350A)
189	R_V_INPUT_SETP_2048		7/4	0-1023	(XU300A/XU350A)
190	R_V_INPUT_SETP_2560		1/0	0-1023	(XU300A/XU350A)
191	R_V_INPUT_SETP_3072		1020/1019	0-1023	(XU300A/XU350A)
192	R_V_INPUT_SETP_3584		1018/1016	0-1023	(XU300A/XU350A)
193	R_V_INPUT_SETP_4096		1016/1013	0-1023	(XU300A/XU350A)
194	G_V_INPUT_SETP_0		24/22	0-1023	(XU300A/XU350A)
195	G_V_INPUT_SETP_512		20/18	0-1023	(XU300A/XU350A)
196	G_V_INPUT_SETP_1024		16/14	0-1023	(XU300A/XU350A)
197	G_V_INPUT_SETP_1536		12/10	0-1023	(XU300A/XU350A)
198	G_V_INPUT_SETP_2048		7/4	0-1023	(XU300A/XU350A)
199	G_V_INPUT_SETP_2560		1/0	0-1023	(XU300A/XU350A)
200	G_V_INPUT_SETP_3072		1020/1019	0-1023	(XU300A/XU350A)
201	G_V_INPUT_SETP_3584		1018/1016	0-1023	(XU300A/XU350A)
202	G_V_INPUT_SETP_4096		1016/1013	0-1023	(XU300A/XU350A)
203	B_V_INPUT_SETP_0		24/22	0-1023	(XU300A/XU350A)
204	B_V_INPUT_SETP_512		20/18	0-1023	(XU300A/XU350A)
205	B_V_INPUT_SETP_1024		16/14	0-1023	(XU300A/XU350A)
206	B_V_INPUT_SETP_1536		12/10	0-1023	(XU300A/XU350A)
207	B_V_INPUT_SETP_2048		7/4	0-1023	(XU300A/XU350A)
208	B_V_INPUT_SETP_2560		1/0	0-1023	(XU300A/XU350A)
209	B_V_INPUT_SETP_3072		1020/1019	0-1023	(XU300A/XU350A)
210	B_V_INPUT_SETP_3584		1018/1016	0-1023	(XU300A/XU350A)
211	B_V_INPUT_SETP_4096		1016/1013	0-1023	(XU300A/XU350A)
212	ERPPOL		84	0-4095	
213	FRP_POS		32	0-255	
214	SWAP		1344	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FLLOW		1	0-1	
217	DELAY_HSYNC		0	0-2047	
218	DELAY_VSYNC		16	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	Output limit R		3686/3686/3686/3686	0-4095	
230	Output limit G		3686/3686/3686/3686	0-4095	
231	Output limit B		3686/3686/3686/3686	0-4095	
232	CROSSTALK_COEF_R		1023	0-1023	
233	CROSSTALK COEF_G		1023	0-1023	
234	CROSSTALK COEF_B		1023	0-1023	
235	LCCON_ENABLE		0	0-1	
236	ENBY_L1		11	0-255	
237	ENBY_H1		692	0-1023	
238	ENBY_L2		11	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
239	ENBY_H2		692	0-1023	
Group 101	**Panel Service(6170/62334)**				
0	R_LCCOM		140/150	0-255	(XU300A/XU350A)
1	G_LCCOM		140/150	0255	(XU300A/XU350A)
2	B-LCCOM		140/150	0-255	(XU300A/XU350A)
3	R-ENBX-PW		5	0-15	
4	G-ENBX-PW		5	0-15	
5	B-ENBX-PW		5	0-15	
6	R-DXIN		44	0-127	
7	G-DXIN		44	0-127	
8	B-DXIN		44	0-127	
9	R-ENB11N		20	0-31	
10	G-ENBX11N		20	0-31	
11	B-ENBX11N		20	0-31	
12	Vmid		140/150	0-255	(XU300A/XU350A)
13	R-Ref		140/150	0-255	(XU300A/XU350A)
14	G-Ref		140/150	0-255	(XU300A/XU350A)
15	G-Ref		140/150	0-255	(XU300A/XU350A)
Group 102	**Auto Keystone Setup Value**				
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group 103	**Help mode for panle domain**				
0	Help mode on/off		1	0-1	
1	APL threshold value		230	0 - 255	
2	Max value		21	0 - 255	
3	Value per unit time		3	0 - 50	
4	Time per 1step		1	1 - 30	
5	Realtime APL		RO	1 - 255	
Group 200	**Option**				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink	0	0 - 1	0: Disable 1: Enable
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)	-	500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)	-	500 - 8000	
23	Lamp Warning Time (HIGH)	Lamp Life at High Mode (Warning Time at High)	-	500 - 8000	
40	Lamp PWM PresAv 50Hz		80	0-255	
41	Lamp PWM PresAc 60Hz		67	0-255	
42	Lamp PWM PresUnlock		65	0-255	
43	Lamp PWM PresPcA		2	0-255	
44	Lamp PWM PresPcB		3	0-255	
45	Lamp PWM PrefHAv50Hz		5000	0-65535	
46	Lamp PWM PresHAv60Hz		5000	0-65535	
47	Lam PWM PrefHUnlock		5000	0-65535	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0-1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0-1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0-255	Read only
53	Filter Counter Reset Times	Filter Counter Reset Times	0	0-255	
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X asis)	0	0 - 1024	
57	Menu Position	Move menu (Y asis)	0	0 - 1024	
58	Lamp Go Out		0	0 - 1	
59	Source Search Enable	Source Search Enable (0: Disable 1:Enable)	0	0-1	
60	Language Default Setting	Language Default setting (0: English 1:Japanese)	0	0-1	
61	OSD Aspect HL	OSD display position offset H left	105	0-1024	
62	OSD Aspect HR	OSD display position offset H right	105	0-1024	
63	Screen Aspect VT	OSD display offset V top	45	0-1024	
64	Screen Aspect VB	OSD display offsetr V bottom	45	0-1024	
70	RC Mode	RC moe setting	0-1	1	
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 202	**Option (MCI model only)**				
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
Group 210	**LampContorl**				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0-255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0-255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	8	0 - 15	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level	0	0 - 15	
20	Lamp check enable		0		0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer level High	15	0 - 15	
Group 231	**VBI Slice Level**				
0	Generic Initial Slicing Level	PW190 register 0xE344	0x34	0-255	
1	Generic High Level Threshold	PW190 register 0xE345	–	0-255	
2	Generic Low Level Threshold	PW190 register 0xE346	–	0-255	
3	Generic Minimum Low Level	PW190 register 0xE347	0x30	0-255	
4	Generic Maximum High Level	PW190 register 0xE348	0xe0	0-255	
Group 250	**FAN Control**				
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan	10	0 - 255	
1	FAN1 MAX ADJUST (DAC)	Adjust the tolerance of DAC and Fan	225	0 - 255	
2	FAN2 MIN ADJUST (DAC)	Volage.	24	0 - 255	
3	FAN2 MAX ADJUST (DAC)	* Lamp mode is forced Eco	225	0 - 255	
4	FAN3 MIN ADJUST (DAC)		15	0-255	
5	FAN3 MAX ADJUST (DAC)		230	0-255	
6	Not used				
7	Not used				
Group 251					
	Not used				
Group 252	**Fan Option**				
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0	0 - 5	
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100	0 - 255	
4	FAN2 MANUAL VOLTAGE	Effective only when Fan Manual	100	0 - 255	
5	FAN3 MANUAL VOLTAGE	switch is 1	100	0 - 255	
6	Not used		-		

Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	44	44	44	44	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	60	60	63	63	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	60	60	60	60	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial				Range	Note
9	Temp C-A Warning(Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	44	44	43	44	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco(Panel)	60	60	60	60	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco(Panel)	60	60	63	63	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	5				0-100	
16	Temp B Warning Offset (Temp)		5				0-100	
17	Temp C Warning Offset (Temp)		5				0-100	
18	Temp B-A Warning Offset (Temp)		0				0-100	
19	Temp C-A Warning Offset (Temp)		0				0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	3				0-100	
21	Temp B Warning Offset (Time)		3				0-100	
22	Temp C Warning Offset (Time)		3				0-100	
23	Temp B-A Warning Offset (Time)		3				0-100	
24	Temp C-A Warning Offset (Time)		3				0-100	

Group 254	Fan Control Range Setting (Temp./Voltage)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
10	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	33	33	35	35	20-100	
11	Normal Fan Control Max Temp		38	39	39	39	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	72	77	95	95	0-255	
13	Normal Fan1 Max		125	125	125	125	0-255	
14	Normal Fan2 Min		68	75	85	90	0-255	
15	Normal Fan2 Max		80	80	80	80	0-255	
16	Normal Fan3 Min		77	82	95	95	0-255	
17	Normal Fan3 Max		135	135	135	135	0-255	
20	Eco Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Eco	30	30	35	35	20-100	
21	Eco Fan Control Max Temp		38	38	39	39	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	50	55	85	85	0-255	
23	Eco Fan1 Max		115	120	125	125	0-255	
24	Eco Fan2 Min		45	45	60	60	0-255	
25	Eco Fan2 Max		50	50	62	62	0-255	
26	Eco Fan3 Min		70	75	90	95	0-255	
27	Eco Fan3 Max		125	125	125	125	0-255	

Group 255	Fan Start/Cooling Setting				
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	55	0-255	
1	Fan2 Initial Volt		55	0-255	
2	Fan3 Initial Volt		55	0-255	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	130	0-255	
5	Fan2 Cooling Speed		130	0-255	
6	Fan3 Cooling Spees		130	0-255	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	2	1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3	1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	3	1-15	
11	OnStart Cooling Start Threshold		38	0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1	0-1	

Group 256	Fan Lamp Voltage Down Setting				
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V×10)	0	30-90	
2	Fan1 Speed Gain		10	0-255	
3	Fan2 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)	10	0-255	
4	Fan3 Speed Gain		10	0-255	
Group 257	**Fan Dimmer Setting**				
0	Dimmer Average Chech Period	Dimmer Average measurement Time (0:10sec. 1:30sec. 2:60 sec. 90: sec...10:30sec.)	1	0-10	
1	Dimmer Average	Dimmer Average Value (Read only)	-		
2	Last Voltage Difference		-		
3	Voltage Difference Goal		-		
Group 258	**FAN network mode IC Temp.**				
0	Standby Cooling Check Cycle	Standby Cooling Check Cycle	5	-	
1	Standy Cooling Start Threshold	Standy Cooling Start Threshold	40	-	
2	Standby Cooling Enable	Standby Cooling Enable	1	-	
Group 260	**Auto Calibration(Common)*Auto Calibration**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	2	1 - 255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1 - 255	
Group 262	**Auto Calibration (CVBS/SVIDEO)**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
2	Cb Imange Area Start X	Cb Acquiring Area H-Start Position	500	0 - 1000	
3	Cb Imange Area Start Y	Cb Acquiring Area V-Start Position	200	0 - 1000	
4	Cr Imange Area Start X	Cr Acquiring Area H-Start Position	500	0 - 1000	
5	Cr Imange Area Start Y	Cr Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	8	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
9	Cb Target Level	Target Value of Cb Level Adj.	212	0 - 255	
10	Cr Target Level	Target Value of Cr Level Adj.	212	0 - 255	
11	Gain Tolerance	Torelance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 264	**Auto Calibration (YCbCr)**				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	
6	Y - GAIN AREA H START		50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0-255	
17	Y-GAIN TARGET		217	0-255	
18	CB-GAINTARGET		237	0-255	
19	CR-GAINTARGET		237	0-255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1-255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1-255	
Group 270	**CUSTOM(Aspect)**				
0	Scaler Horizontal	Horizontal Scaler Edit	100	68-132	
1	Sclaler Vertical	Vertical Scaler Edit	100	68-132	
2	Connect	Seperate/Connect Edit	0	0-1	0:Seperate, 1: Connect
3	Position Horizontal	Horizontal Postion Correction	100	85-115	
4	Position Vertical	Vertical Position Correct	100	85-115	
5	Aspect Enable	Aspect Adj. Enable	0	0-1	1: Enable, 0: Disable
Group 280	**AutoPC Adjust**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0-1	0:Enabel, 1:Disable
1	Frequency Step	Frequency Steps of Total Dot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0-10	0[]<-- - --> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0-1	0;Excutes Fine Phase; 1:Not Excute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290	**PanelType * Panel Type Check**				
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500	**Composite (NTSC) Composite / S-Video**				
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	**Composite (PAL) Composite / S-Video**				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
4	Disp Line		536	0 ~ 4095	
Group 502	**Composite (SECAM) Composite / S-Video**				
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	**SCART(480i)**				
0					
1	Disp Dots		674	0 ~ 4095	
2	H Back Porch		132	0 ~ 4095	
3	V Back Porch		43	0 ~ 4095	
4	Disp Line		452	0 ~ 4095	
Group 511	**SCART (575i)**				
0					
1	Disp Dots		650	0 ~ 4095	
2	H Back Porch		152	0 ~ 4095	
3	V Back Porch		68	0 ~ 4095	
4	Disp Line		514	0 ~ 4095	
Group 520	**YCbCr (480i)**				
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521	**YCbCr (575i)**				
0	Total Dots		864	0~4095	
1	Disp Dots		656	0~4095	
2	H Back Porch		162	0~4095	
3	V Back Porch		64	0~4095	
4	Disp Line		534	0~4095	
Group 522	**YCbCr (480P)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523	**YCbCr (575P)**				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		690	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		313	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		257	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	**RGB Video (480i)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 541	**RGB Video (575i)**				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 542	**RGB Video (480P)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 543	**RGB Video (575P)**				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		318	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	

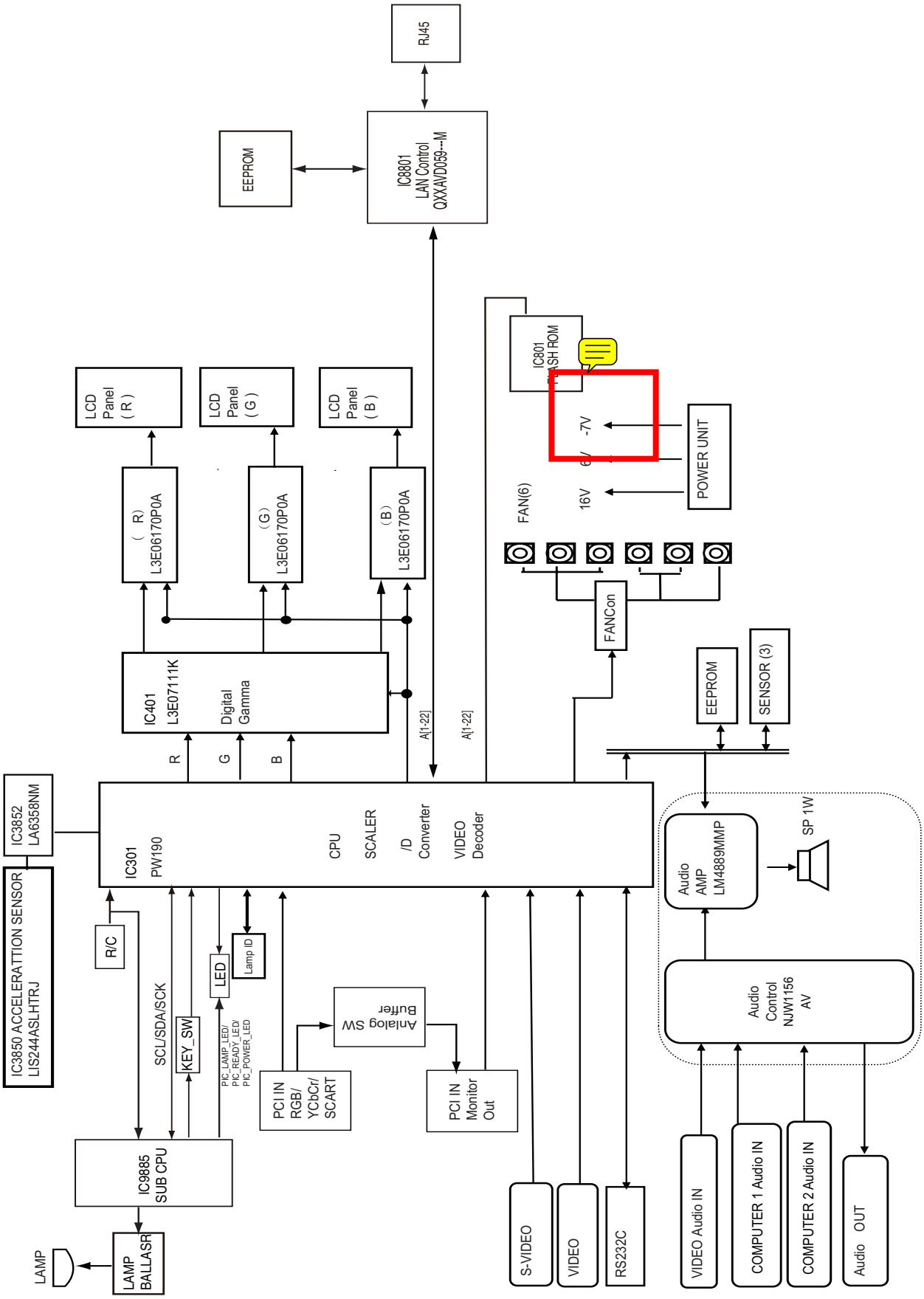
Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
6	Clamp Width		31	0 ~ 255	
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 560	**HDCP (480P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 561	**HDCP (575P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 562	**HDCP (720P-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)		0 - 255	
8	VSBEG		2	0 - 15	
Group 563	**HDCP (720P-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 564	**HDCP (1080i-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 565	**HDCP (1080i-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	

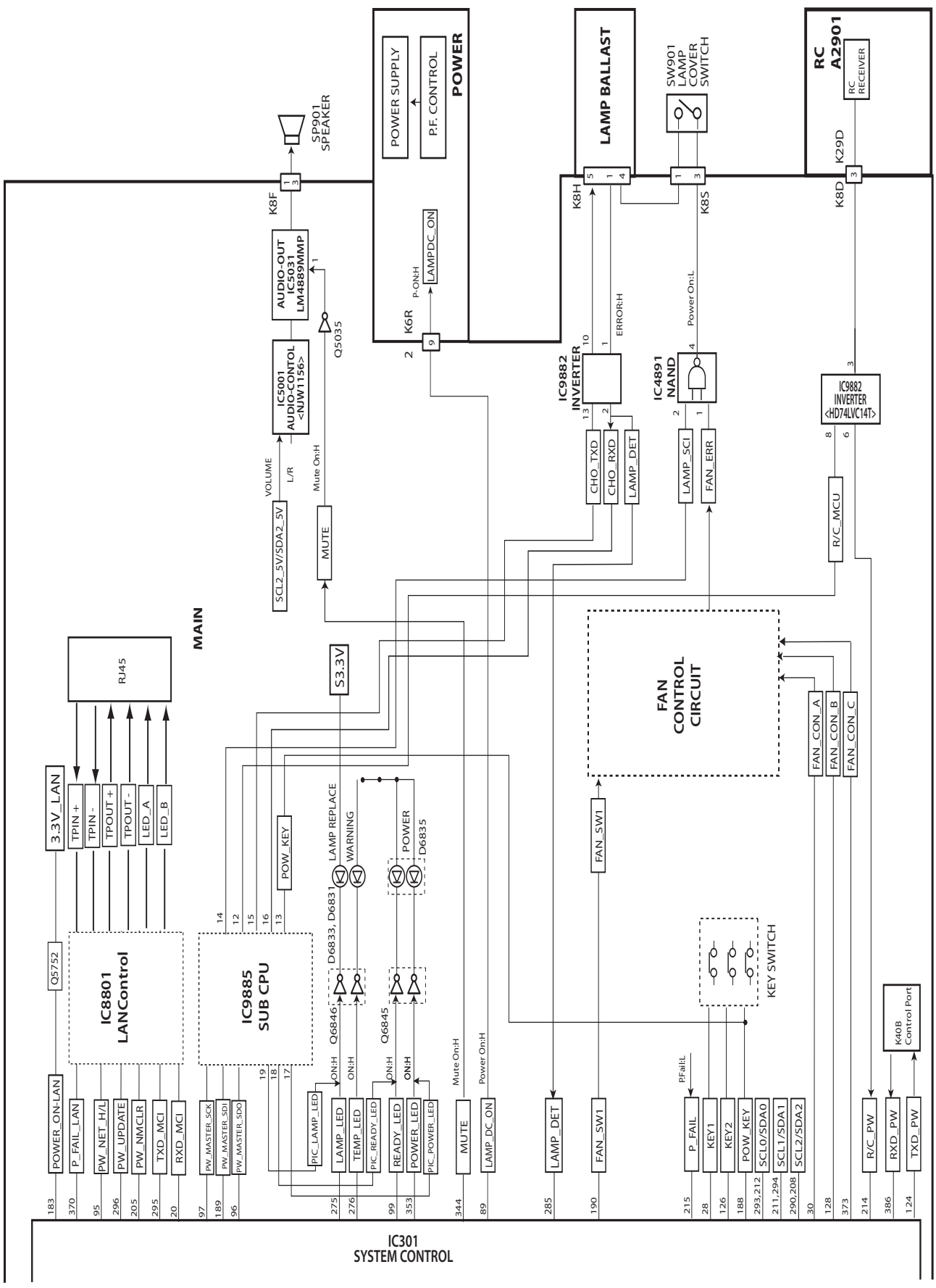
Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 566	**HDCP (1035i)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 981	**Color Shading Adj Offset**				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

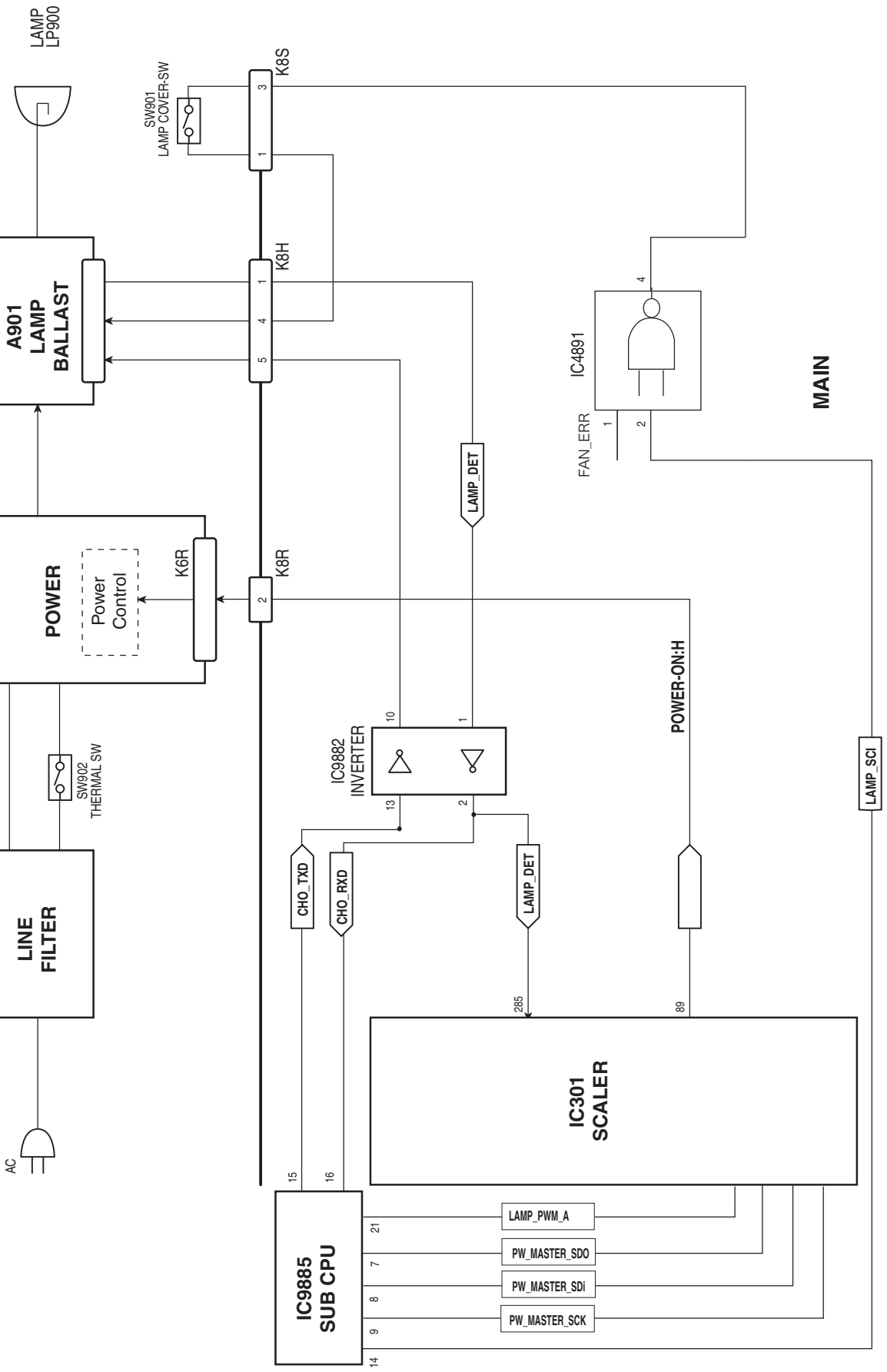
Chassis over view



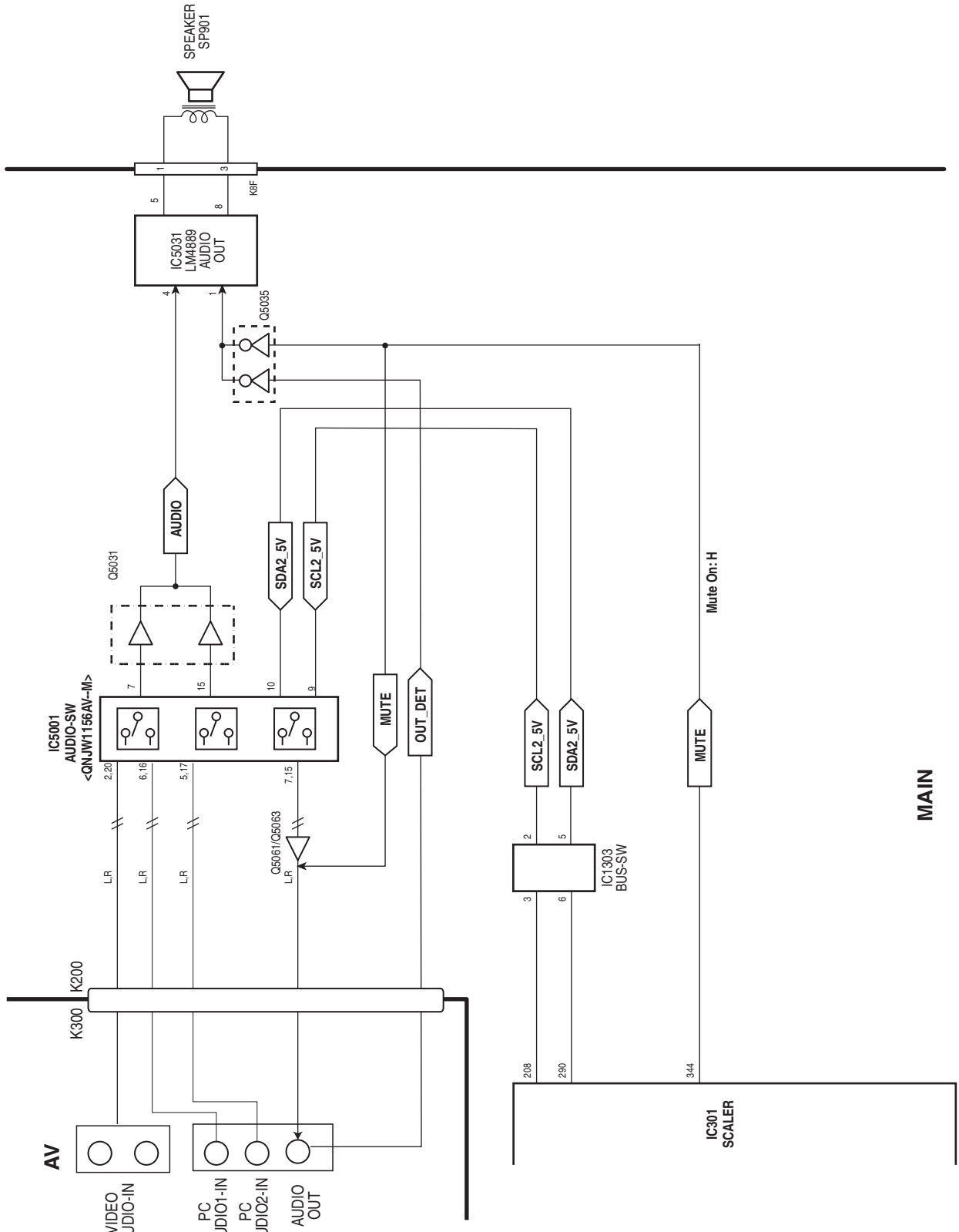
System control



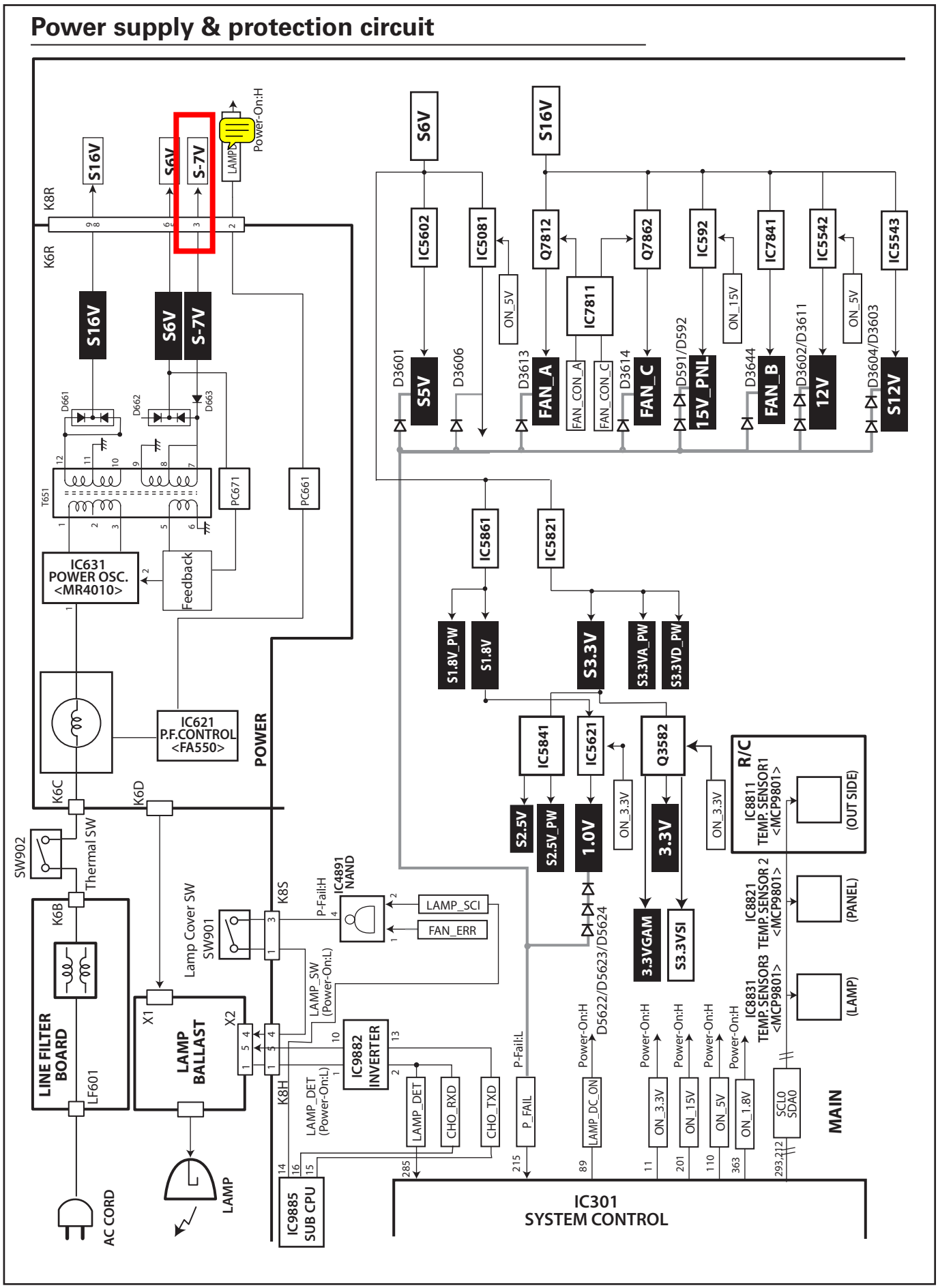
Lamp control



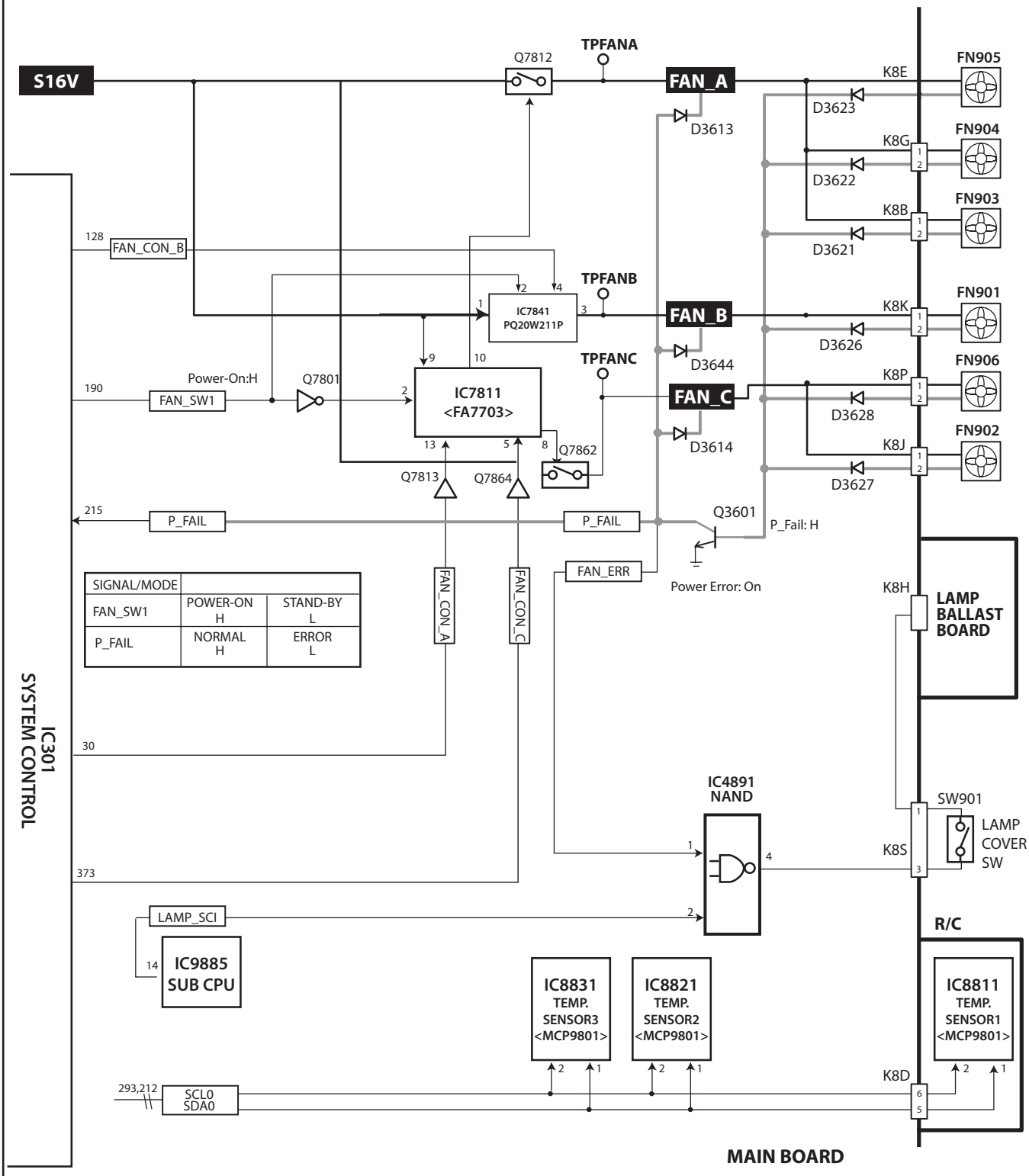
Audio circuit



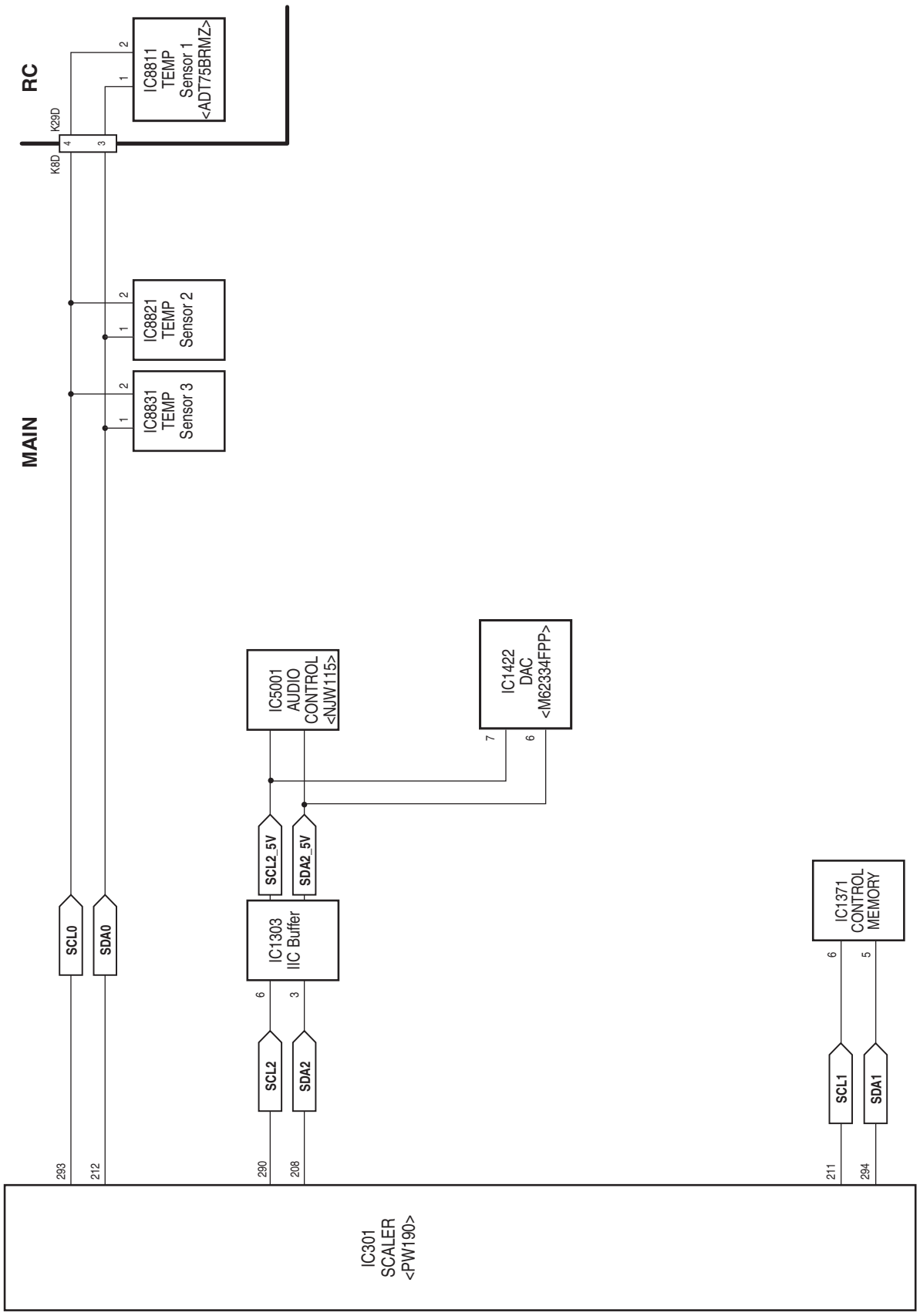
Power supply & protection circuit



Fan control circuit



IIC bus Control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
●	●	●	The projector is off. (The AC power cord is unplugged.)
◍ blinks	●	✱	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
◍	●	✱	The projector is ready to be turned on with the POWER ON-OFF button.
○	●	✱	The projector is operating normally.
○ blinks	●	✱	The projector is in the Power management mode.
◍ blinks	◍ blinks	✱	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filter.
◍	◍ blinks	✱	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.
●	◍	✱	The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

○ • • • green. ◍ • • • red ● • • • off

○ blinks • • • blinks green. ◍ blinks • • • blinks red.

✱ When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

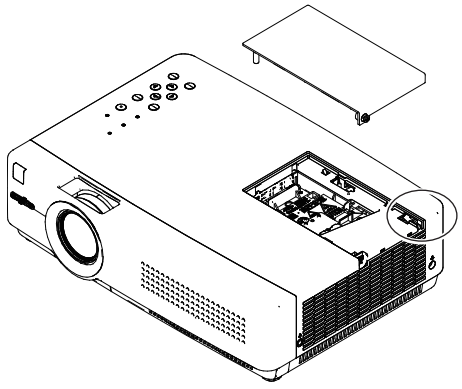
- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord, F601 (Fuse), Power board,
  SW902 (Thermal sw.) short in normal
  SW902 opens when the surrounding temperature of the switch exceeds 100°C.

- **When the WARNING (red) and POWER (red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8831, IC8821 on the Main board and IC8811 on the R/C board.

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.
  The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SYSTEM CONTROL> and P_FAIL_LAN is sent to pin 370 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shutdown signal, LAMP_DC_ON, to the power supply circuit to stop its operation, and signal LAMP_SCI to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.
  An abnormality occurs on the secondary power supply;
  Check power supplies S16V, S6V, S-7V. P_FAIL,P_FAIL_LAN signal becomes "Low" when the abnormality occurs on any of the power supply lines.
  An abnormality occurs on the fan control circuit;
  Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.
  If any of the fans has an error, the fan lock signal drives Q3601 becomes "High". As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.
  An abnormality occurs on the drive signals;
  ON_15V signal (Power-on: H) is output from pin 201 of IC301 and switches IC592,15.5VL supply circuit, ON_5V signal (Power-on: H) is output from pin 110 of IC301 and switches IC5542,IC5081, 11-AMP supply circuit, ON_3.3V signal (Power-on: H) is output from pin 11 of IC301 and switches IC5621, 1.0V and Q3582 3.3V supply circuit.
  LAMP_DC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.C Control IC, IC621, on the power supply board through Q651, and PC661.
  LAMP_SCI signal (Power-on: H) is output from pin 14 of IC9885 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.
  LAMP_DET signal at the pin 285 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET signal becomes "High" and then IC301 shuts down the power supply circuit.

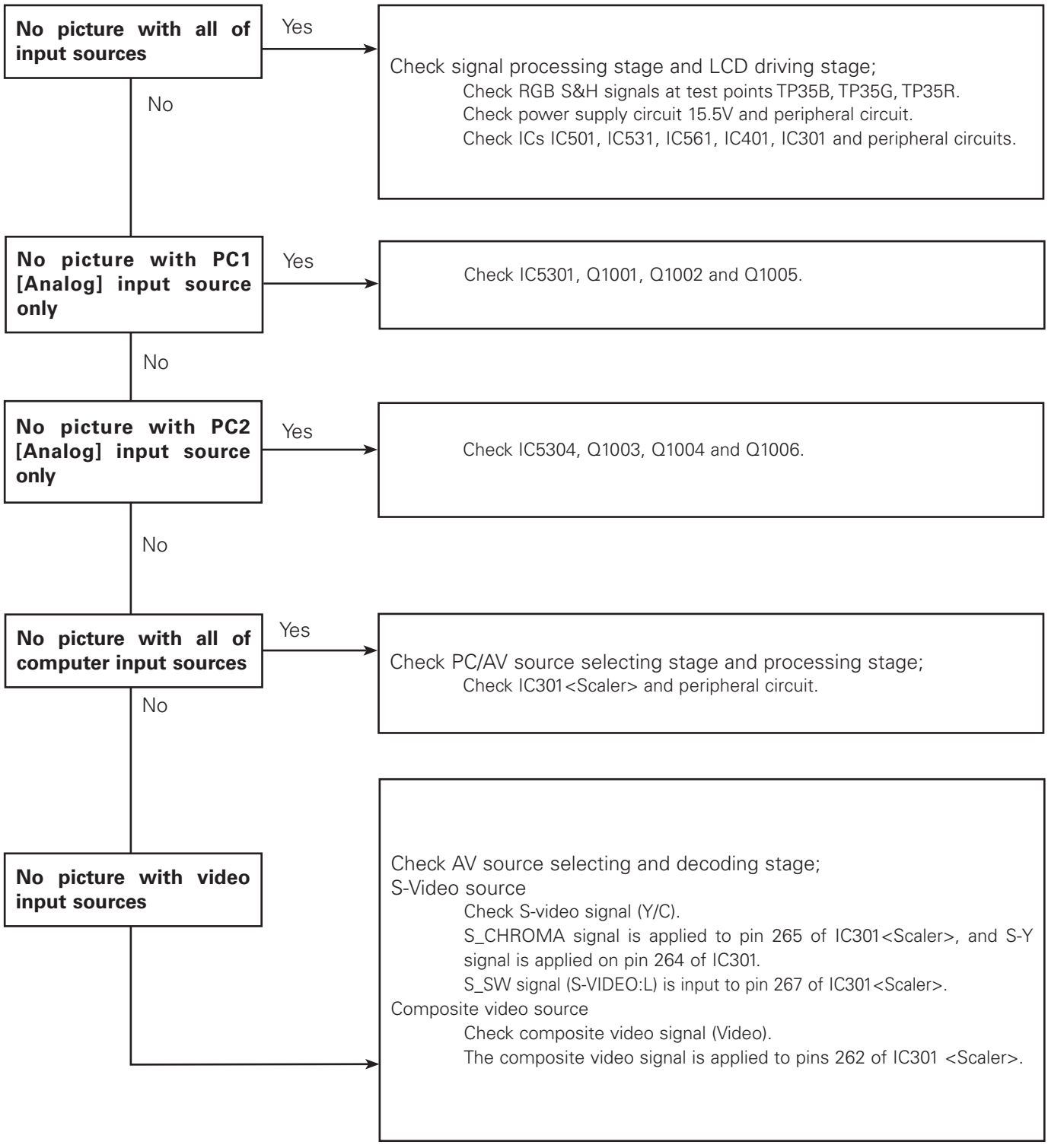
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



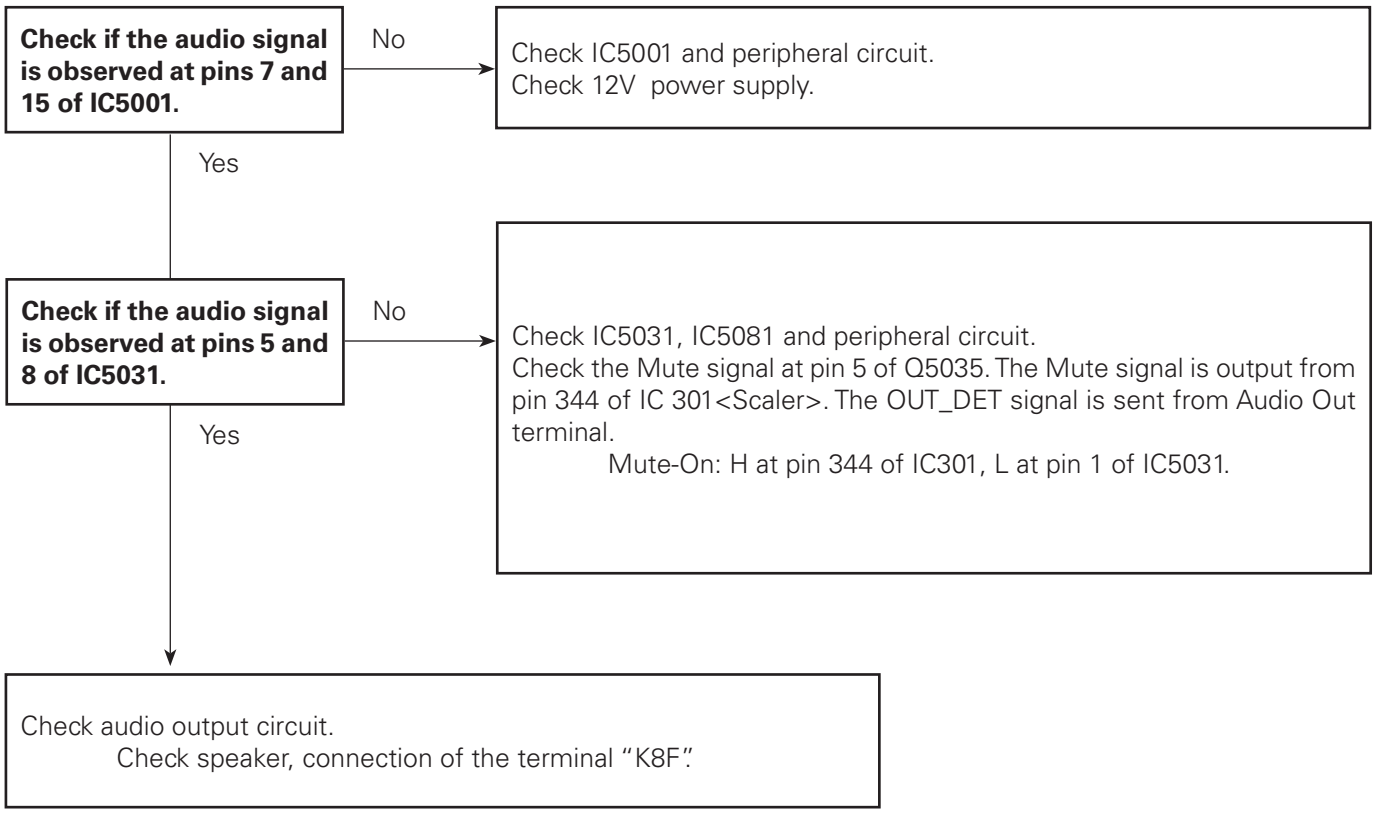
No Picture

Check following steps.


No picture with all of input sources
Yes
Check signal processing stage and LCD driving stage;
Check RGB S&H signals at test points TP35B, TP35G, TP35R.
Check power supply circuit 15.5V and peripheral circuit.
Check ICs IC501, IC531, IC561, IC401, IC301 and peripheral circuits.
No
No picture with PC1 [Analog] input source only
Yes
Check IC5301, Q1001, Q1002 and Q1005.
No
No picture with PC2 [Analog] input source only
Yes
Check IC5304, Q1003, Q1004 and Q1006.
No
No picture with all of computer input sources
Yes
Check PC/AV source selecting stage and processing stage;
Check IC301<Scaler> and peripheral circuit.
No
No picture with video input sources
Check AV source selecting and decoding stage;
S-Video source
Check S-video signal (Y/C).
S_CHROMA signal is applied to pin 265 of IC301<Scaler>, and S-Y signal is applied on pin 264 of IC301.
S_SW signal (S-VIDEO:L) is input to pin 267 of IC301<Scaler>.
Composite video source
Check composite video signal (Video).
The composite video signal is applied to pins 262 of IC301 <Scaler>.

No Sound

Check following steps.

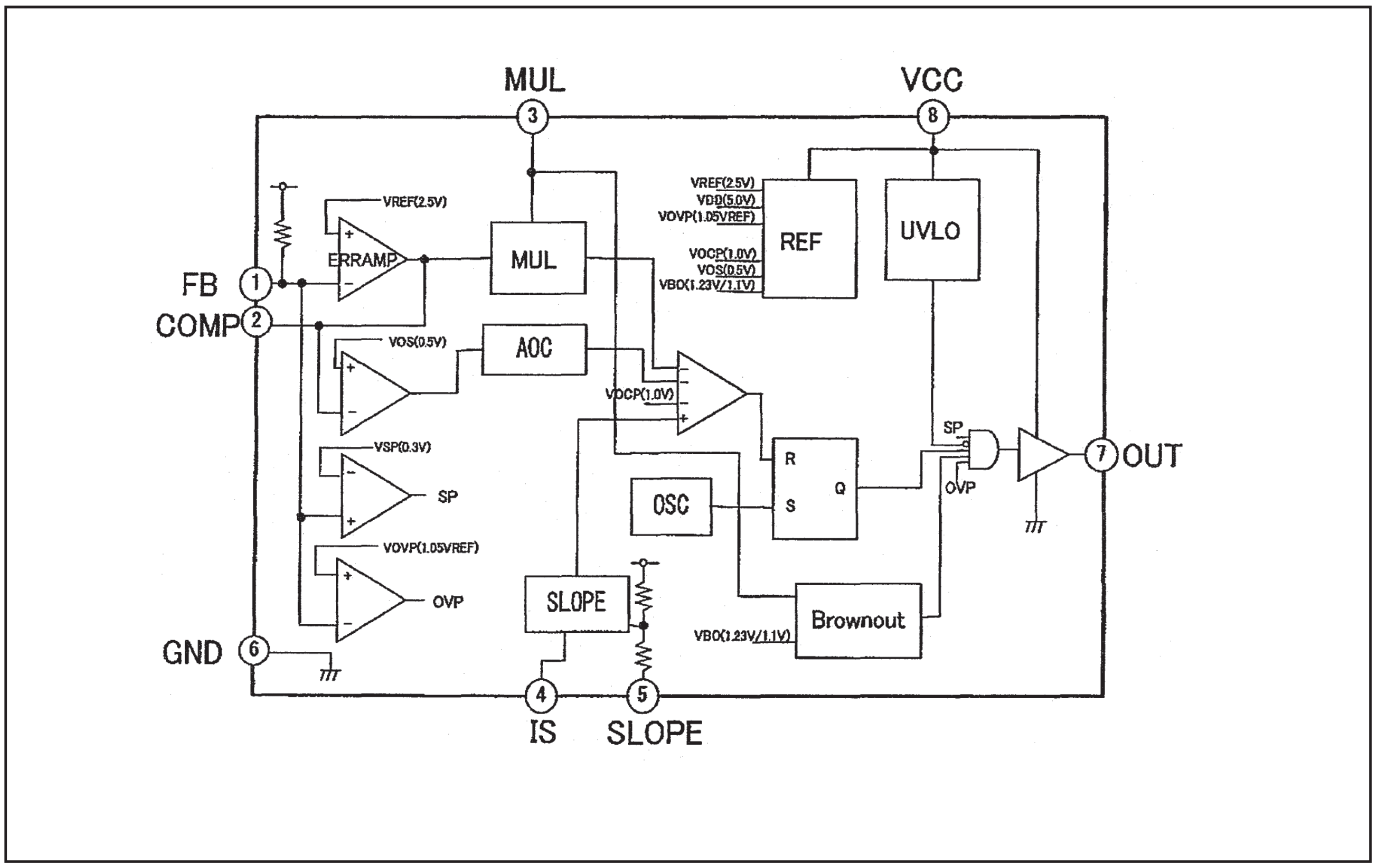

Check if the audio signal is observed at pins 7 and 15 of IC5001.
No
Check IC5001 and peripheral circuit.
Check 12V power supply.
Yes
Check if the audio signal is observed at pins 5 and 8 of IC5031.
No
Check IC5031, IC5081 and peripheral circuit.
Check the Mute signal at pin 5 of Q5035. The Mute signal is output from pin 344 of IC 301<Scaler>. The OUT_DET signal is sent from Audio Out terminal.
Mute-On: H at pin 344 of IC301, L at pin 1 of IC5031.
Yes
Check audio output circuit.
Check speaker, connection of the terminal "K8F".

Control Port Functions

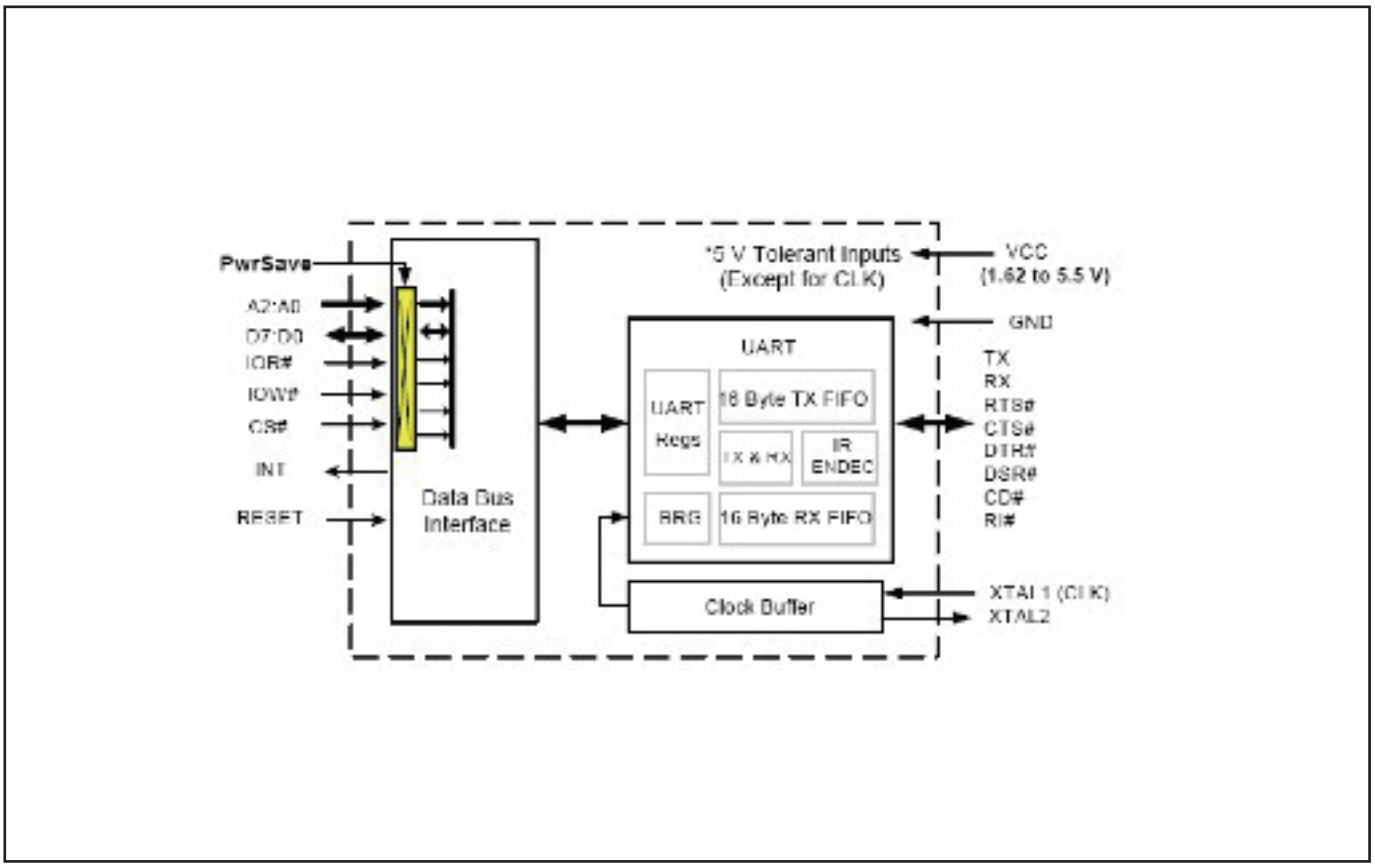
Scaler I/O Port Functions (PW190)

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
93	J1	PORTG7		ON_3.3V	3.3V Power Drive, Power On: H	O
187	H2	PORTG0		ON_5V	5VA Drive On/Off, On: H	O
111	B12	PORTC1		SCS_PW	3-Wired Serial Control	O
124	B25	TXD_PW		TXD_PW	Serial Control RXD	O
94	H1	PORTG1		ON_15V	15V Power Driver,Pow on:H	O
202	C12	PORTC2		SDATA_PW	3-Wired Serial Control Data	O
205	C15	PORTI7		PW_NMCLR	LAN control	I
208	C18	PORTH5	2-Wire Serial Data 2	SDA2	IIC Bus Switch IC DAC, SoundIC[5V_SW]	O
211	C21	PORTH1	2-Wire Serial Clock 1	SCL1		O
212	C22	PORTH7	2-Wire Serial Data 0	SDA0	IIC Bus Temp Sensor [S3.3V]	O
28	C26	ADC1		KEY1	Input/Select/Keystone	I
278	D5	PORTD5		ID_PWR_SW	lamp ID power 5V ON/OFF	I
284	D11	PWM1		BLAST_AC	Ballast CTL	O
285	D12	PORTC3		LAMP_DET	LampErrorDet Low=Error	I
290	D17	PORTH4	2-Wire Serial Clock 2	SCL2	IIC Bus Control Clock	O
293	D20	PORTH6	2-Wire Serial Clock 0	SCL0	IIC Bus Control Clock	O
294	D21	PORTH3	2-Wire Serial Data 1	SDA1	IIC Bus Control Data	O
296	D23	PORTI6		PW_UPDATE	LAN control	O
215	D24	ADC0	ADC0	P_FAIL	Power Failure Signal Input, Failure:L	I
126	D25	ADC2	ADC2	KEY-2	Key Control Input	I
29	D26	ADC6	ADC6	LAMP Option	Lamp Option	I
362	E14	PORTC4		IRM_RST	L3E07111 reset	O
368	E20	PORTH0		RXD_PW	Serial Control RXD	I
370	E22	ADC5	ADC5	P_FAIL_LAN	LAN error detect	I
30	E26	DAC1	DAC1	FAN_CON_A	FAN CON_A	O
298	F23	ADC4	ADC4	BRAND Option	Option Switch BRAND	I
128	F25	DAC2	DAC2	FAN_CON_B	FAN CON_B	O
373	H22	DAC0	DAC0	FAN_CON_C	FAN_CON_C	O
92	K1	PORTB3		DG[1]		O
185	K2	PORTB1		DB[1]		O
91	L1	PORTB5		DR[1]		O
184	L2	PORTB6		PW_LAMP_ID_A	lamp ID	O
346	L4	PORTB4		DR[0]		O
183	M2	PORTA1		POWER_ON_LAN	POWER_ON_LAN	O
268	M3	PORTB0		DB[0]		O
345	M4	PORTB2		DG[0]		O
89	N1	PORTA3		LAMP_DC_ON	Power Control, Power On: H	O
267	N3	PORTA6		S_SW	S_Video DET, Low=Connect, High=NC	I
344	N4	PORTA7		MUTE	High=Mute_ON	O
413	N5	PORTA4		MONIT_OUT	Low=in, High=Monit OUT	O
474	N6	PORTA2		SW_PNL_REF	15.5V for PANEL REF on/off	O
329	AC9	PORTD2	A[22]	A[22]		O
160	AE12	PORTD0	A[20]	A[20]		O
72	AF12	PORTD1	A[21]	A[21]		O
186	J2	PORTG5		ON_-5V	-5V Power Driver, Power On:H	O
110	B11	PORTC6		ON_16V	16V Power Driver, Power On:H	O
200	C10	PWM3		LAMP_PWM	LAMP STATE CONTROL	O
96	F1	PORTF4		PW_MASTER_SDO	SUB CPU COMMUNICATION	O
189	F2	PORTF1		PW_MASTER_SDI	SUB CPU COMMUNICATION	O
97	E1	PORTF0		PW_MASTER_SCK	SUB CPU COMMUNICATION	O

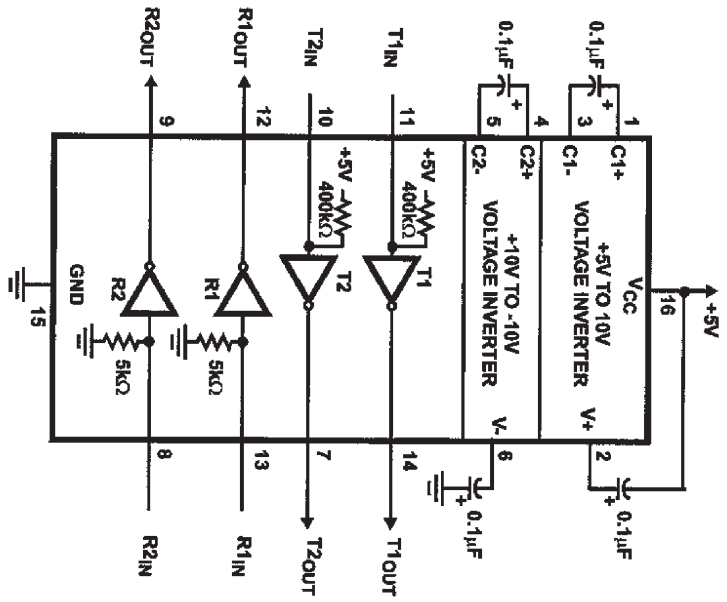
● FA5550NG <P.F. Control, IC621>



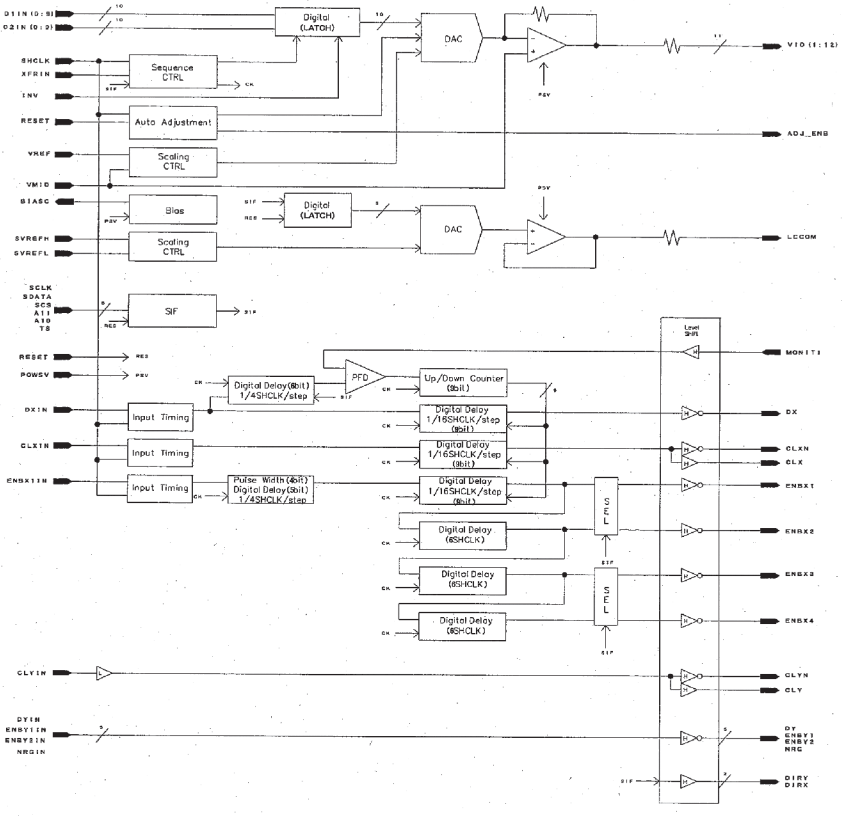
● XR16L5701IL24 <UART, IC9885>



● MAX232ECPWRP <RS-232C Driver, IC3801>

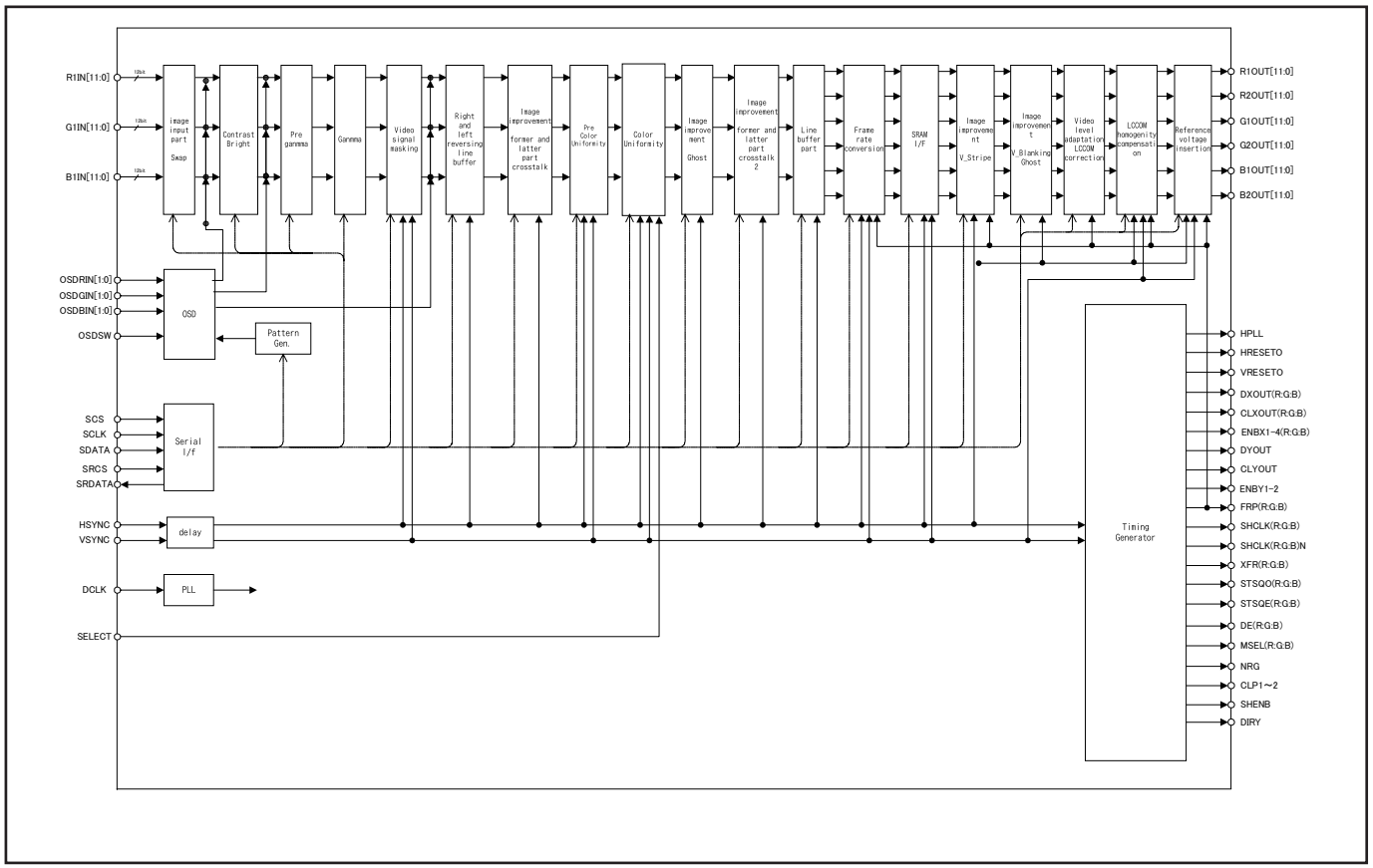


● L3E06170 <D/A, S/H-LCD Driver, IC501, IC531, IC561>

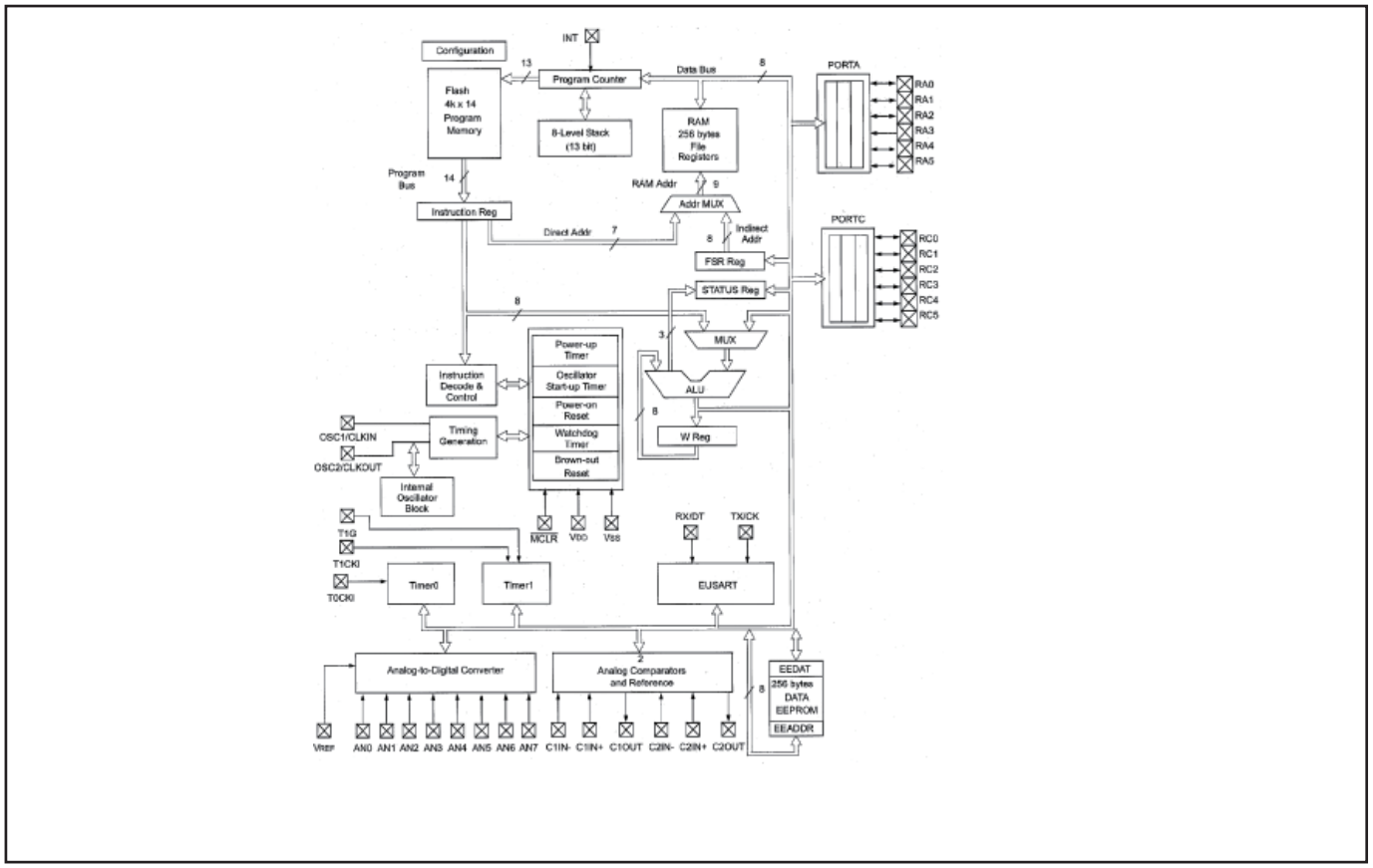


IC Block Diagrams

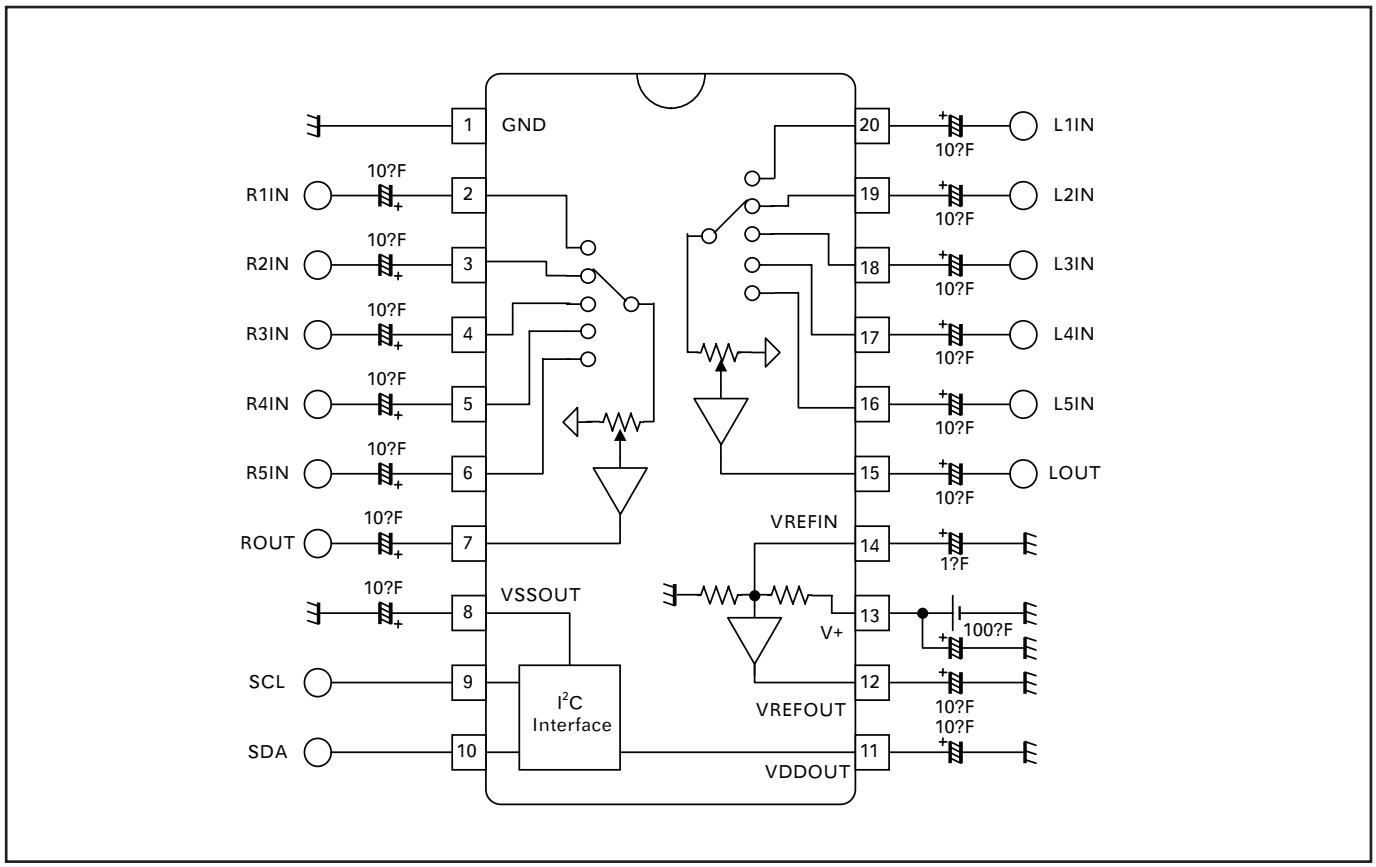
● L3E07111 <LCD Driver & Gamma Correction, IC401>



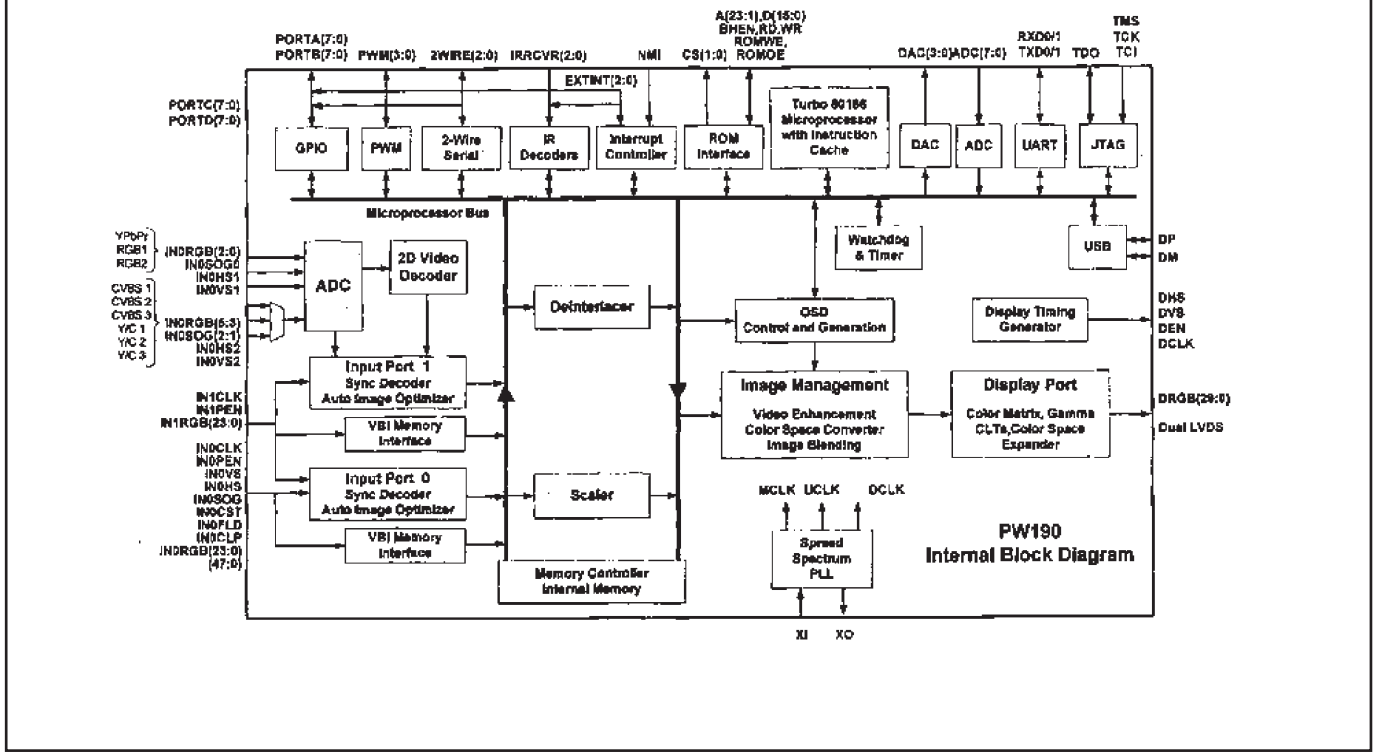
● PIC16F688T <LAMP ID, IC8741>



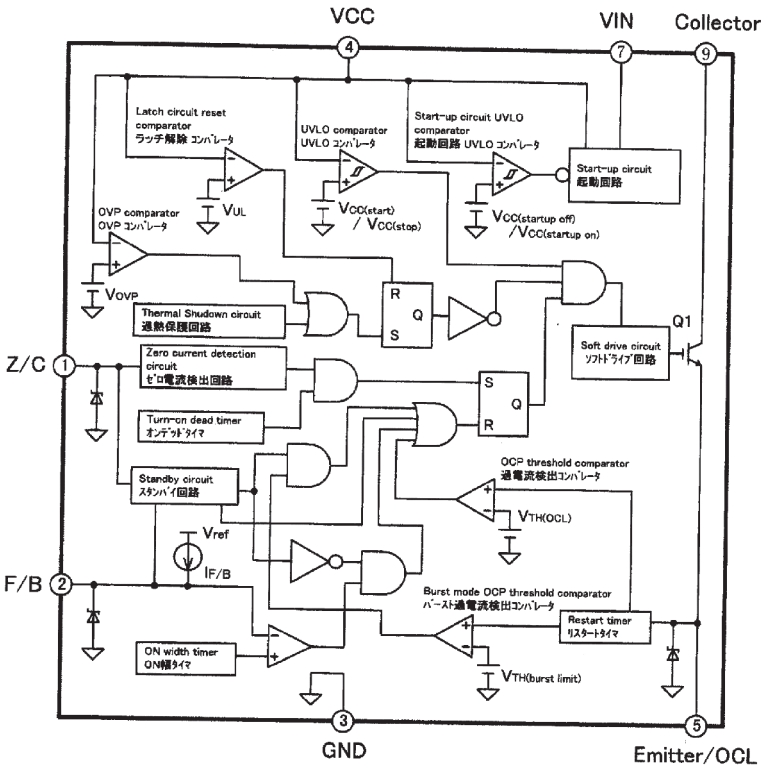
● NJW1156 <Audio Control, IC5001>



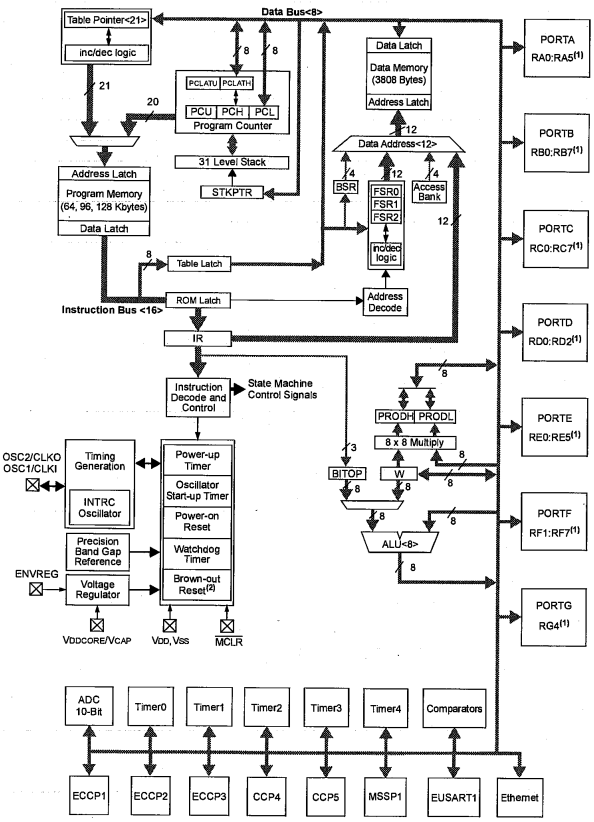
● PW190 <Scaler, IC301>



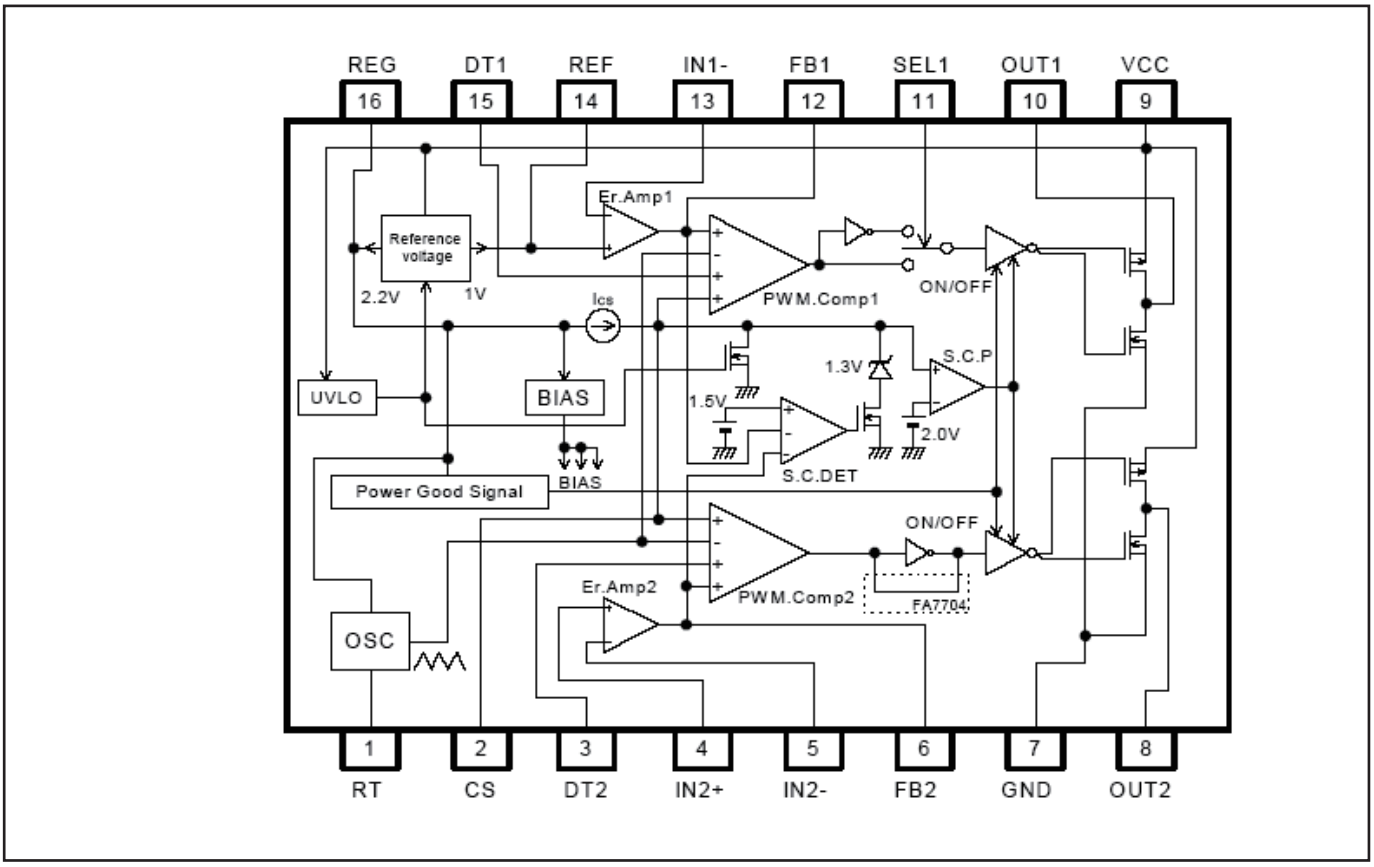
● MR4010 <Power OSC, IC631>



● PIC18F67J60<LAN CONTROL,IC8801>



● FA7703 <DC-DC Converter, IC7811>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P — Rated value: P=pico farad, U=micro farad
- CERAMIC — Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient

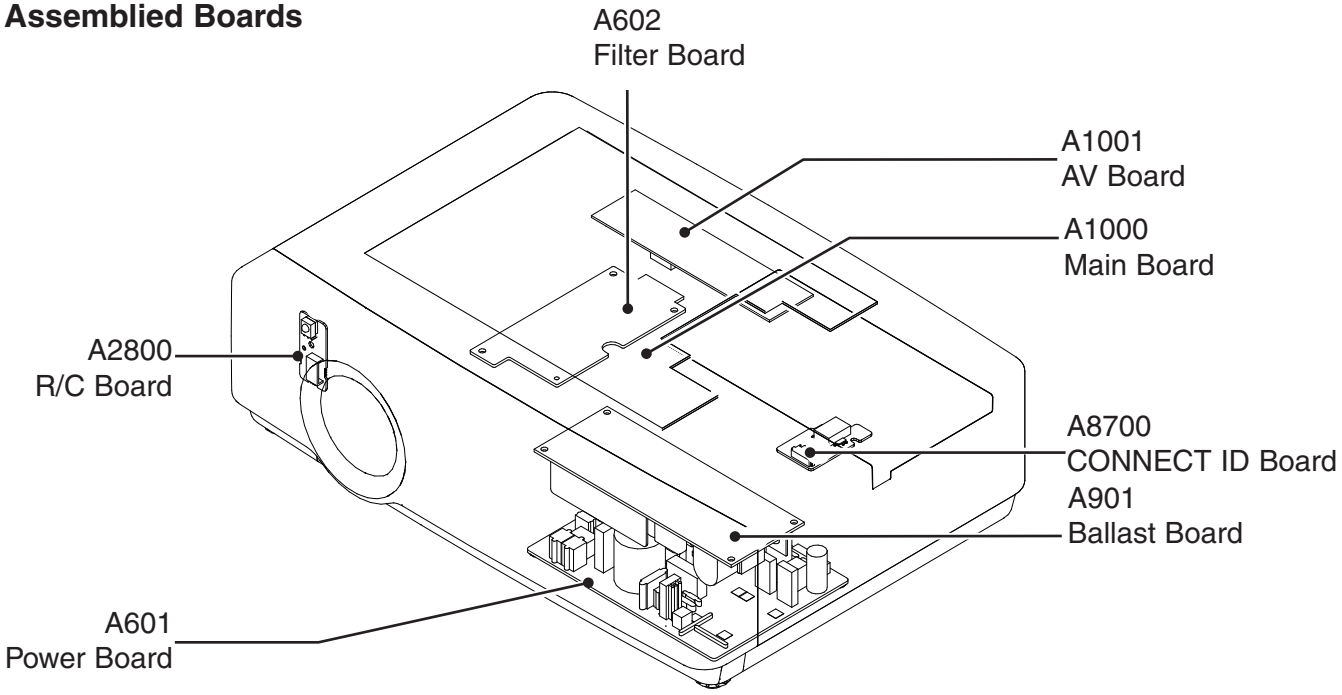
T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15% Z: 0 ohm
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

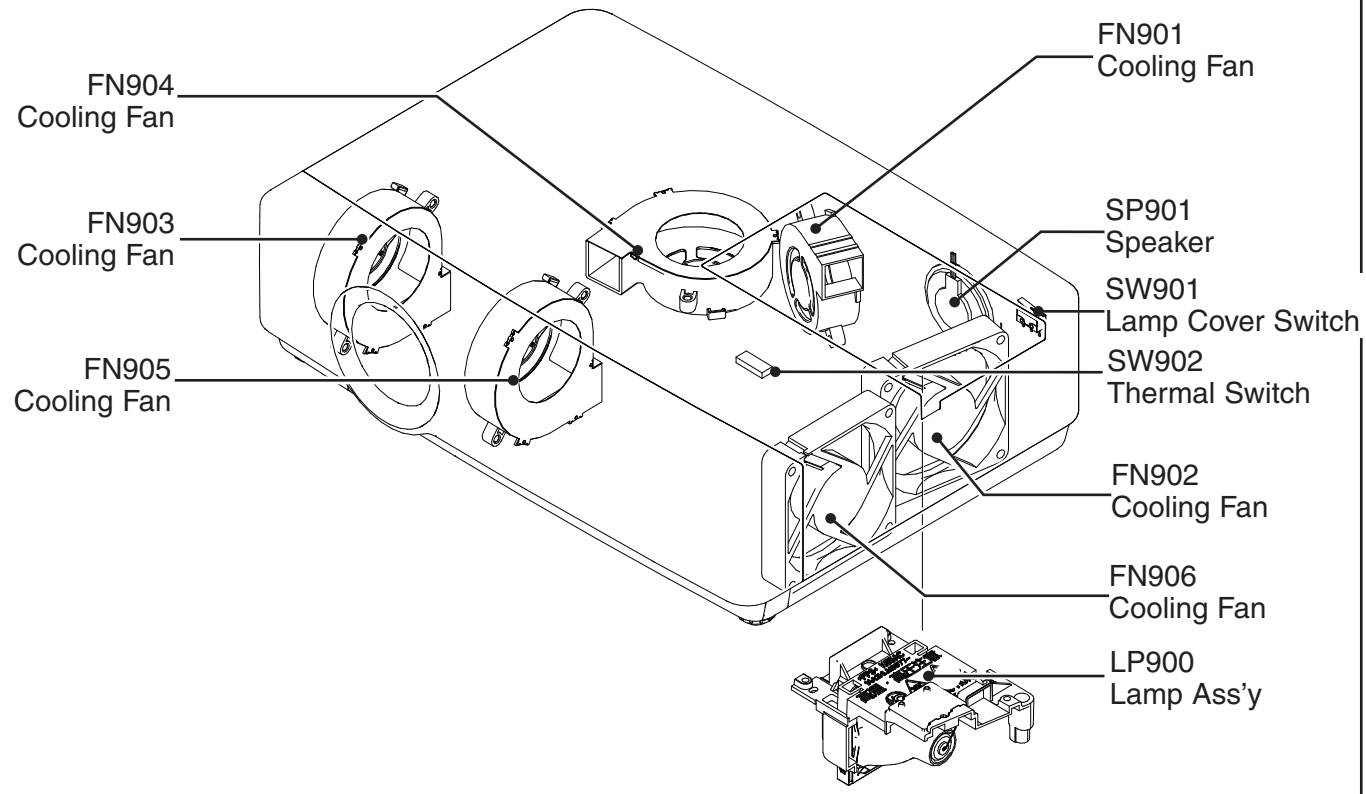
CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Electrical Parts Location

● **Assemblied Boards**



● Out Of Circuit Board



Electrical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
ASSEMBLED BOARDS		
⚠A601	655 003 4335	ASSY,PWB,POWERKG5AE
⚠A602	655 003 4328	ASSY,PWB,FILTER KG5AE
⚠A1000	655 003 5301	ASSY,PWB,MAIN KF5AE (For KF5-XU350A00)
⚠A1000	655 003 4465	ASSY,PWB,MAIN KA5AE (For KA5-XU300A00)
⚠A1001	655 003 4427	ASSY,PWB,AV KF5AE
⚠A2800	655 003 4410	ASSY,PWB,RC KF5AE
⚠A8700	655 003 4540	ASSY,PWB,ID CONNECT KF5AE
OUT OF CIRCUIT BOARD		
L601	945 033 2228	CORE,FERRITE
⚠LP900	610 343 2069	COMPL,OPT LMP-KG5AC
⚠A901	645 099 2575	UNIT,BALLAST
A901A	610 344 5335	CABLE,BALLAST KG5AC
⚠FN901	645 099 5217	MOTOR,BLW DC 1.92W
⚠FN902	645 099 6160	MOTOR,FAN DC 3.36W
⚠FN903	645 099 6832	MOTOR,BLW DC 3.0W
⚠FN904	645 099 6849	MOTOR,BLW DC 3.0W
⚠FN905	645 099 6832	MOTOR,BLW DC 3.0W
⚠FN906	645 099 6856	MOTOR,FAN DC 3.36W
SP901	652 002 4397	SPEAKER,8
⚠SW901	645 097 3925	SWITCH,MICRO 1P-2T
⚠SW902	652 002 8852	SWITCH,THERMAL
⚠	652 002 8470	ASSY,WIRE(SW902)
655 003 4335 ASSY,PWB,POWER KG5AE		
TRANSISTOR		
Q611	305 146 6405	TR 2SK2837
Q641	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q642	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q643	305 217 6600	TR 2SK3934
Q651	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
INTEGRATED CIRCUIT		
IC621	409 690 7918	IC FA5550N
IC631	309 653 7405	IC MR4010-7101
IC671	409 692 2515	IC TA76L431FB

Key No.	Part No.	Description		
CAPACITOR				
C611	303 222 1326	CERAMIC	1000P K	1K
	304 084 6300	CERAMIC	1000P K	1K
C612	303 222 1326	CERAMIC	1000P K	1K
	304 084 6300	CERAMIC	1000P K	1K
C613	303 451 4119	MT-POLYEST	1U K	450V
C614	303 451 4119	MT-POLYEST	1U K	450V
C615	404 118 3609	ELECT	150U M	420V
C621	303 336 3510	CERAMIC	0.47U K	16V
	403 459 8017	CERAMIC	0.47U K	16V
	304 110 9800	CERAMIC	0.47U K	16V
C622	304 091 4504	CERAMIC	0.047U K	50V
C623	304 090 1207	CERAMIC	0.01U K	50V
C625	304 090 1207	CERAMIC	0.01U K	50V
C626	303 396 9613	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C627	304 091 3309	CERAMIC	2200P K	50V
C631	303 157 4215	CERAMIC	220P J	50V
C632	404 111 2401	CERAMIC	680P K	2K
C633	303 265 3216	CERAMIC	1000P J	50V
C634	304 091 3309	CERAMIC	2200P K	50V
C641	304 091 2609	CERAMIC	0.1U K	50V
C644	303 417 9912	CERAMIC	4.7U K	25V
C651	303 410 7113	ELECT	100U M	25V
C653	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C661	303 445 4405	ELECT	1800U M	25V
C662	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C663	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C664	303 429 6718	ELECT	1500U M	10V
C665	303 409 9913	ELECT	470U M	16V
C671	304 091 2609	CERAMIC	0.1U K	50V
⚠C691	304 073 4508	CERAMIC	2200P K	250V
⚠C692	304 073 4508	CERAMIC	2200P K	250V
RESISTOR				
R611	401 353 0311	MT-GLAZE	430K JA	1/3W
R612	401 353 0212	MT-GLAZE	360K JA	1/3W
R613	301 256 6314	MT-GLAZE	47K JA	1/10W
R614	302 106 5508	RESISTER	0.075 KB	5W
R615	301 188 3313	MT-GLAZE	680K JA	1/4W
R616	301 188 3313	MT-GLAZE	680K JA	1/4W
R621	301 265 5711	MT-GLAZE	8.2K FA	1/10W
R622	301 264 9215	MT-GLAZE	330 FA	1/10W
R624	301 162 2912	MT-GLAZE	220 JA	1/10W
R625	301 256 5614	MT-GLAZE	47 JA	1/10W
R626	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R627	301 150 5918	MT-GLAZE	10K JA	1/10W
R628	301 150 5918	MT-GLAZE	10K JA	1/10W
R629	301 255 7312	MT-GLAZE	510K JA	1/10W
R631	301 255 7718	MT-GLAZE	11K JA	1/10W
R633	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R634	301 256 1715	MT-GLAZE	33K JA	1/10W
R635	402 122 1802	OXIDE-MT	0.39JA	1W
	302 099 6308	OXIDE-MT	0.39JA	1W
R636	301 162 3018	MT-GLAZE	22K JA	1/10W
R641	301 150 5918	MT-GLAZE	10K JA	1/10W
R642	301 256 6611	MT-GLAZE	68K JA	1/10W
R643	301 150 5918	MT-GLAZE	10K JA	1/10W
R644	301 150 5918	MT-GLAZE	10K JA	1/10W
R646	301 256 7212	MT-GLAZE	18K JA	1/10W

Electrical Parts List

Key No.	Part No.	Description		
R647	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R648	301 256 7212	MT-GLAZE	18K JA	1/10W
R651	301 150 5918	MT-GLAZE	10K JA	1/10W
R652	301 292 1915	MT-GLAZE	22 FA	1/2W
R662	301 152 3219	MT-GLAZE	330 JA	1/10W
R671	301 256 7618	MT-GLAZE	3.9K JA	1/10W
R672	301 150 6212	MT-GLAZE	1K JA	1/10W
R673	301 264 2919	MT-GLAZE	12K FA	1/10W
R674	301 264 7518	MT-GLAZE	2.7K FA	1/10W
R675	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R676	301 264 2810	MT-GLAZE	1.2K FA	1/10W
R683	301 265 0211	MT-GLAZE	390 FA	1/10W
R684	301 264 9314	MT-GLAZE	3.3K FA	1/10W
VARIABLE RESISTOR				
⚠VR621	645 095 2579	VR,SEMI,1K N		
	645 102 0338	VR,SEMI,1K N		
TRANSFORMER				
⚠T651	645 097 6483	TRANS,POWER,PULSE		
COIL				
⚠L611	645 098 0473	LINE FILTER		
L612	945 084 0273	INDUCTOR,1400U		
L613	910 244 3975	CORE		
L614	910 244 3975	CORE		
L631	910 078 5954	PIPE CORE		
L661	910 244 3975	CORE		
L662	910 244 3975	CORE		
L663	945 041 1978	INDUCTOR,330 OHM		
DIODE				
D611	307 191 3903	DIODE FML-G16S		
D611D	645 098 1715	CORE,FERRITE		
D611E	645 098 1715	CORE,FERRITE		
D613	307 149 0810	DIODE 1SS355-TE-17		
D631	307 149 0810	DIODE 1SS355-TE-17		
D632	307 247 8827	DIODE RF101L2S		
D633	307 146 8116	DIODE EG01C		
D651	307 247 8827	DIODE RF101L2S		
D661	407 261 9504	DIODE YG862C10R		
D662	307 222 9607	DIODE FMB-2306		
	307 202 9801	DIODE FMB-26L		
	307 253 7504	DIODE RB085T-60		
	307 250 2403	DIODE RB225T-60		
D663	307 247 8827	DIODE RF101L2S		
	307 190 4119	DIODE SFPL-52V		
D664	307 210 5416	DIODE RB551V-30-TE-17		
DB611	307 202 7708	DIODE D10XB60		
MISCELLANEOUS				
⚠F631	324 006 1305	FUSE	250V	2.5A
Q611F	645 098 1715	CORE,FERRITE		
⚠PC661	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
	407 265 7813	PC TLP781F(D4-GB-TP7)		
⚠PC663	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
	407 265 7813	PC TLP781F(D4-GB-TP7)		
⚠PC671	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
	407 265 7813	PC TLP781F(D4-GB-TP7)		
PTH611	308 037 5501	THERMISTOR NTPDB5R0LDHB0		
PTH641	408 062 4606	TH PRF18BD471QB1RB		
ZD631	307 206 5413	ZD UDZS-TE-178.2B		

Key No.	Part No.	Description		
655 003 4328 ASSY,PWB,FILTER KG5AE				
CAPACITOR				
⚠C601	404 117 6403	MT-POLYEST	1U K	275V
	404 117 8902	MT-POLYEST	1U K	310V
⚠C602	404 117 6403	MT-POLYEST	1U K	275V
	404 117 8902	MT-POLYEST	1U K	310V
⚠C603	304 073 3907	CERAMIC	1000P K	250V
⚠C604	304 073 3907	CERAMIC	1000P K	250V
RESISTOR				
⚠R601	301 287 5416	MT-GLAZE	200K JA	1W
⚠R602	301 287 5416	MT-GLAZE	200K JA	1W
VARIABLE RESISTOR				
⚠VA601	407 255 6304	VARISTORMYG3-14K300ZT		
	408 061 9701	VARISTOR S14K300E2S5M4,2		
COIL				
⚠L601	645 099 6825	LINE FILTER		
⚠LF601	645 093 1765	SOCKET,INLET AC 3P		
MISCELLANEOUS				
⚠F601	423 034 4101	FUSE	250V	6.3A
	323 021 7804	FUSE	250V	6.3A
655 003 5301 ASSY,PWB,MAIN KF5AE (For KF5-XU350A00)				
655 003 4465 ASSY,PWB,MAIN KA5AE (For KA5-XU300A00)				
TRANSISTOR				
Q1001	406 021 7804	TR 2SC4617		
Q1002	406 021 7804	TR 2SC4617		
Q1003	305 217 7815	TR HN1B04FE-Y TE85L		
Q1004	305 217 7815	TR HN1B04FE-Y TE85L		
Q1005	406 021 7804	TR 2SC4617		
Q1006	305 217 7815	TR HN1B04FE-Y TE85L		
Q1007	406 021 7804	TR 2SC4617		
Q1008	406 021 7804	TR 2SC4617		
Q1062	406 021 7804	TR 2SC4617		
Q1421	305 134 5928	TR 2SA1037AK-T146-R		
	305 147 2218	TR 2SA1037AK-S-T146		
	305 173 9618	TR 2SA1235A1E		
	305 173 9717	TR 2SA1235A1F		
	405 220 3115	TR ISA1235AC1E		
	405 220 3016	TR ISA1235AC1F		
Q1422	406 021 7804	TR 2SC4617		
Q2011	406 021 7804	TR 2SC4617		
Q2021	406 021 7804	TR 2SC4617		
Q2031	406 021 7804	TR 2SC4617		
Q3051	406 021 7804	TR 2SC4617		
Q3582	305 217 6917	TR TPC6107 TE85L		
Q3583	406 021 7804	TR 2SC4617		
Q3601	406 021 7804	TR 2SC4617		
Q3801	305 191 5814	TR 3LN01C-TB-E		
Q4012	305 134 5928	TR 2SA1037AK-T146-R		
	305 147 2218	TR 2SA1037AK-S-T146		
	305 173 9618	TR 2SA1235A1E		

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Key No.	Part No.	Description
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q4014	305 217 7815	TR HN1B04FE-Y TE85L
Q4015	305 217 7815	TR HN1B04FE-Y TE85L
Q4016	305 217 7815	TR HN1B04FE-Y TE85L
Q5031	405 221 7914	TR HN1C01FE-Y
Q5033	406 021 7804	TR 2SC4617
Q5035	405 221 7914	TR HN1C01FE-Y
Q5061	405 221 7914	TR HN1C01FE-Y
Q5062	405 221 7914	TR HN1C01FE-Y
Q5306	406 021 7804	TR 2SC4617
Q5336	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5602	305 217 6917	TR TPC6107 TE85L
Q5603	406 021 7804	TR 2SC4617
Q5700	305 217 7815	TR HN1B04FE-Y TE85L
Q5701	305 174 1819	TR CPH3424-TL-E
Q5703	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5751	305 217 6917	TR TPC6107 TE85L
Q5752	406 021 7804	TR 2SC4617
Q5753	305 217 6917	TR TPC6107 TE85L
Q5755	406 021 7804	TR 2SC4617
Q6845	405 221 7914	TR HN1C01FE-Y
Q6846	405 221 7914	TR HN1C01FE-Y
Q691	406 021 7804	TR 2SC4617
Q7801	405 221 7914	TR HN1C01FE-Y
Q7812	305 217 8515	TR RSQ025P03-TR
Q7813	305 217 7815	TR HN1B04FE-Y TE85L
Q7814	305 217 7815	TR HN1B04FE-Y TE85L
Q7842	305 217 7815	TR HN1B04FE-Y TE85L
Q7862	305 217 8515	TR RSQ025P03-TR
Q7864	305 217 7815	TR HN1B04FE-Y TE85L
Q9602	305 211 1918	TR RJU002N06
Q9603	305 211 1918	TR RJU002N06
Q9604	305 211 1918	TR RJU002N06
Q9631	406 021 7804	TR 2SC4617
Q9632	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q9641	406 021 7804	TR 2SC4617
Q9642	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
INTEGRATED CIRCUIT		
IC1051	409 697 3913	IC LE24C023M-TLM-E
IC1303	310 479 4004	IC TC7WBD125AFK
IC1371	410 656 8600	IC 24AA64T-I/MS
IC1422	309 431 4424	IC M62334FP-DF5Q
IC1424	410 666 5804	IC UPC358GR-9LG-E1-A
IC301	309 670 8419	IC PW190-10L
IC302	309 487 5727	IC TC7SZ125FU
IC3801	409 699 2815	IC MAX232ECPWR
IC3852	309 246 9710	IC LA6358NM-TE-L-E
IC4001	409 677 4619	IC EL5308IUZ
IC4701	309 428 8428	IC TC7WT125FU-TE12L
IC4891	309 395 5915	IC TC7SH00FU-(TE85L)
IC5001	409 683 5716	IC NJW1156AV
IC5031	309 594 1916	IC LM4889MMX
IC5081	309 578 6210	IC PQ1M505M2SPQ
IC5301	309 439 8919	IC TC7WH125FU
IC5304	309 439 8919	IC TC7WH125FU
IC5542	410 656 8501	IC XC6216BC02MR
IC5543	410 656 8501	IC XC6216BC02MR
IC5602	309 578 6210	IC PQ1M505M2SPQ
IC5621	410 651 0104	IC R1131D101B-TR-F
IC5821	409 689 2115	IC MP2106DK
IC5841	309 598 5217	IC TAR5S25
IC5861	409 689 2115	IC MP2106DK
IC592	309 461 7822	IC PQ20WZ11
IC7811	309 675 1316	IC FA7703V-H1
IC7841	309 461 7822	IC PQ20WZ11
IC801	410 696 8905	IC M29W320ET70N6EKF5AE
IC841	410 647 7902	IC MCP103T-300
IC8801	410 689 0701	IC PIC18F67J60-I/PT-KA5AC
IC8802	410 656 8600	IC 24AA64T-I/MS
IC8803	410 681 7302	IC M25P10-AVMN6TP
CAPACITOR		
C1002	303 437 4614	CERAMIC 10U K 25V
	403 478 5714	CERAMIC 10U K 25V
C1004	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1006	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1007	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1008	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1009	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1010	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1011	303 454 0415	CERAMIC 0.068U K 16V
	303 442 0519	CERAMIC 0.068U K 16V
C1012	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1014	303 454 0415	CERAMIC 0.068U K 16V
	303 442 0519	CERAMIC 0.068U K 16V
C1016	303 454 0415	CERAMIC 0.068U K 16V
	303 442 0519	CERAMIC 0.068U K 16V
C1017	303 454 0415	CERAMIC 0.068U K 16V
	303 442 0519	CERAMIC 0.068U K 16V
C1018	303 454 0415	CERAMIC 0.068U K 16V
	303 442 0519	CERAMIC 0.068U K 16V
C1019	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1042	303 453 8917	CERAMIC 0.1U K 16V

Electrical Parts List

Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1051	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1061	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C1092	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1103	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1105	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1301	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1331	303 276 1911	CERAMIC	22P J	50V
C1332	403 456 4616	CERAMIC	27P J	50V
	303 309 2519	CERAMIC	27P J	50V
C1371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1421	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1422	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1423	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1424	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1427	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1428	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1429	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1431	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1432	403 467 0911	CERAMIC	0.1U K	25V
C1441	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C1442	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C1871	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1872	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2002	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2003	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C2004	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2011	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2012	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2021	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2022	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2892	303 453 7217	CERAMIC	47P J	50V
	303 454 1610	CERAMIC	47P J	50V
	303 305 8812	CERAMIC	47P J	50V
C301	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C302	303 230 3616	TA-SOLID	47U M	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V
C303	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C304	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3052	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C3053	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C306	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C307	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C308	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C309	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C310	303 230 3616	TA-SOLID	47U M	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V
C311	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C312	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C313	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C314	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C315	303 230 3616	TA-SOLID	47U M	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V
C316	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
C318	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C319	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C320	303 230 3616	TA-SOLID	47U M	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V
C321	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C322	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C323	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C324	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C326	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C327	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C328	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C329	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C330	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C331	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C332	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C333	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C334	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C335	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C336	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C337	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C338	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C339	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C341	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C342	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C343	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C344	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C346	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C347	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C348	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3501	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3502	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3503	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3504	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3506	303 381 5316	ELECT	100U M	16V
C3508	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3509	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C351	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3511	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3512	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3513	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3514	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3516	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3517	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3518	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3519	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C352	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3521	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V

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Key No.	Part No.	Description		
C3522	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3523	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3524	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3526	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3527	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3528	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3529	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C353	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3531	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3532	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3533	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3534	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3536	303 381 5316	ELECT	100U M	16V
C3538	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3539	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C354	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3541	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3542	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3543	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3544	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3546	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3547	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3548	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3549	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C355	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3551	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3552	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3553	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3554	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3556	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3557	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3558	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3559	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C356	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3562	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3563	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3564	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3566	303 381 5316	ELECT	100U M	16V
C3568	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3569	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C357	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3571	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C3572	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3573	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3574	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3576	303 453 7019	CERAMIC	33P J	50V

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Key No.	Part No.	Description		
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3577	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3578	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3579	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C358	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3581	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3582	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3583	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3584	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3586	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3587	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3588	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3589	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C3598	303 394 5815	CERAMIC	4.7U K	16V
	303 441 5515	CERAMIC	4.7U K	16V
C3599	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C361	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C362	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C363	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C364	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C365	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C366	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C367	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C368	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C369	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C370	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C371	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C372	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C373	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C374	403 457 2512	CERAMIC	0.47U K	10V
	303 376 6311	CERAMIC	0.47U K	10V
C377	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C378	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C379	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C380	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3801	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3802	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3803	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3804	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C381	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C382	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C383	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C384	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C385	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C3857	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3858	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C3859	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3860	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3861	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C388	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4001	303 382 7814	CERAMIC	2.2U K	10V
C4002	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4004	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C401	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C402	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C403	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C404	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C406	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C407	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C411	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C412	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C413	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C414	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C416	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C417	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C421	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C422	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C423	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C424	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C426	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C427	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C431	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C432	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C433	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C434	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C436	303 453 8917	CERAMIC	0.1U K	16V

Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C437	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C438	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C439	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C441	303 391 5511	ELECT	10U M	16V
C442	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C443	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C480	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4808	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C481	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C482	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C483	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5001	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5002	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5003	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C5004	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5009	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C501	303 298 9612	CERAMIC	0.1U K	16V
C5011	303 394 5815	CERAMIC	4.7U K	16V
	303 441 5515	CERAMIC	4.7U K	16V
C5012	303 394 5815	CERAMIC	4.7U K	16V
	303 441 5515	CERAMIC	4.7U K	16V
C5013	303 394 5815	CERAMIC	4.7U K	16V
	303 441 5515	CERAMIC	4.7U K	16V
C5014	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C502	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5021	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5022	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V

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Key No.	Part No.	Description		
C5024	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5025	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5026	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5027	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5028	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5029	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C503	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5031	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5032	303 336 3510	CERAMIC	0.47U K	16V
	403 459 8017	CERAMIC	0.47U K	16V
	304 110 9800	CERAMIC	0.47U K	16V
C5033	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5037	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5038	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5039	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C504	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5044	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C506	303 298 9612	CERAMIC	0.1U K	16V
C5061	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5069	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C507	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C508	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C5081	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5082	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5083	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5084	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5087	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C509	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C5098	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C511	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C512	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C513	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C514	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C516	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C517	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C518	303 342 3313	CERAMIC	0.1U K	25V
C519	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C521	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C523	303 342 3313	CERAMIC	0.1U K	25V
C524	303 342 3313	CERAMIC	0.1U K	25V
C527	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C528	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5304	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C531	303 298 9612	CERAMIC	0.1U K	16V
C5315	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5316	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C5317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C532	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C533	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5331	303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0216	CERAMIC	2.2U K	6.3V
C5332	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5334	303 453 6814	CERAMIC	68P J	50V
	303 454 0019	CERAMIC	68P J	50V
	303 320 0419	CERAMIC	68P J	50V
C5336	403 456 4616	CERAMIC	27P J	50V
	303 309 2519	CERAMIC	27P J	50V
C5337	303 453 6319	CERAMIC	100P J	50V
	303 454 0910	CERAMIC	100P J	50V
	303 294 6110	CERAMIC	100P J	50V
C534	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C536	303 298 9612	CERAMIC	0.1U K	16V
C537	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C538	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C539	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C541	303 397 8219	CERAMIC	2.2U K	25V

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Key No.	Part No.	Description		
	403 454 6414	CERAMIC	2.2U K	25V
C542	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C543	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C544	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C546	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C547	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C548	303 342 3313	CERAMIC	0.1U K	25V
C549	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C551	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C553	303 342 3313	CERAMIC	0.1U K	25V
C554	303 342 3313	CERAMIC	0.1U K	25V
C5540	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C5541	303 437 4614	CERAMIC	10U K	25V
	403 478 5714	CERAMIC	10U K	25V
C5542	403 467 0911	CERAMIC	0.1U K	25V
C5543	403 467 0911	CERAMIC	0.1U K	25V
C5544	303 391 5214	ELECT	47U M	16V
C557	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C558	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C561	303 298 9612	CERAMIC	0.1U K	16V
C5611	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C5612	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5613	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5614	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5615	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5618	303 382 7814	CERAMIC	2.2U K	10V
C562	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5621	303 383 5215	CERAMIC	4.7U K	6.3V
C5623	303 383 5215	CERAMIC	4.7U K	6.3V
C563	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C564	303 409 3426	CERAMIC	0.1U K	16V
C566	303 298 9612	CERAMIC	0.1U K	16V
C567	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C568	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C569	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C5705	303 376 3112	ELECT	100U M	25V
C5706	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5707	303 324 6417	CERAMIC	0.022U K	16V
C5708	303 397 5713	ELECT	100U M	10V
C571	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C572	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C573	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C574	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5751	303 382 7814	CERAMIC	2.2U K	10V
C5752	303 382 7814	CERAMIC	2.2U K	10V
	303 394 5211	CERAMIC	2.2U K	10V
C5753	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C576	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C577	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C578	303 342 3313	CERAMIC	0.1U K	25V
C579	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C581	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C5821	303 369 0527	CERAMIC	0.01U K	25V
C5822	303 157 7018	CERAMIC	1800P K	50V
C5823	303 369 0527	CERAMIC	0.01U K	25V
C5824	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5825	303 381 5316	ELECT	100U M	16V
C5826	303 369 0527	CERAMIC	0.01U K	25V
C5827	303 392 5015	CERAMIC	22U M	6.3V
	403 455 9216	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C583	303 342 3313	CERAMIC	0.1U K	25V
C584	303 342 3313	CERAMIC	0.1U K	25V
C5841	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5843	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C5844	303 409 3426	CERAMIC	0.1U K	16V
C5860	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5861	303 324 6417	CERAMIC	0.022U K	16V
C5862	303 279 5114	CERAMIC	3300P K	50V
C5863	303 453 9815	CERAMIC	0.01U K	25V
	303 369 0527	CERAMIC	0.01U K	25V
C5864	403 455 1616	CERAMIC	10U K	16V
	403 478 5813	CERAMIC	10U K	16V
C5865	303 381 5316	ELECT	100U M	16V
C5866	303 369 0527	CERAMIC	0.01U K	25V

Electrical Parts List

Key No.	Part No.	Description		
C5867	303 392 5015	CERAMIC	22U M	6.3V
	403 455 9216	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C587	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C588	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V
C596	403 467 0911	CERAMIC	0.1U K	25V
C597	303 376 3112	ELECT	100U M	25V
C598	403 467 0911	CERAMIC	0.1U K	25V
C599	303 376 3112	ELECT	100U M	25V
C6801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C7811	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V
C7812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7813	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C7817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7818	303 454 1917	CERAMIC	4700P K	50V
C7841	303 376 3112	ELECT	100U M	25V
C7842	403 467 0911	CERAMIC	0.1U K	25V
C7843	303 376 3112	ELECT	100U M	25V
C7844	403 467 0911	CERAMIC	0.1U K	25V
C7863	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C7868	303 454 1917	CERAMIC	4700P K	50V
C801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C841	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C842	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C843	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C844	303 453 8511	CERAMIC	1000P K	50V
	303 454 1214	CERAMIC	1000P K	50V
C8801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8806	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8807	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8808	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8809	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8810	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8811	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8813	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8814	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8815	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8818	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8819	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8820	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8821	303 409 3426	CERAMIC	0.1U K	16V
C8823	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8851	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C9631	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C9642	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C9875	303 305 8812	CERAMIC	47P J	50V
C9878	303 324 6417	CERAMIC	0.022U K	16V
C9881	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9882	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9883	303 392 1215	ELECT	47U M	6.3V
C9884	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9885	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9886	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9887	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9888	303 442 0212	CERAMIC	0.22U Z	16V
RESISTOR				
R006	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1001	301 260 4115	MT-GLAZE	75 JA	1/3W
R1003	301 225 8110	MT-GLAZE	10 JA	1/16W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
R1025	301 260 4214	MT-GLAZE	82 JA	1/3W
R1026	301 260 4214	MT-GLAZE	82 JA	1/3W
R1028	301 260 4214	MT-GLAZE	82 JA	1/3W
R1029	301 225 2019	MT-GLAZE	680 JA	1/16W
R1030	301 225 1418	MT-GLAZE	47K JA	1/16W
R1035	301 225 1814	MT-GLAZE	47 JA	1/16W
R1036	301 225 1814	MT-GLAZE	47 JA	1/16W
R1037	301 225 1814	MT-GLAZE	47 JA	1/16W
R1038	301 224 8814	MT-GLAZE	100 JA	1/16W
R1039	301 225 1814	MT-GLAZE	47 JA	1/16W
R1040	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1041	301 225 1418	MT-GLAZE	47K JA	1/16W
R1046	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1047	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1048	301 224 8814	MT-GLAZE	100 JA	1/16W
R1050	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1052	301 263 7420	MT-GLAZE	75 JA	1/16W
R1055	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1057	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1060	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1062	301 263 7420	MT-GLAZE	75 JA	1/16W
R1063	301 225 2019	MT-GLAZE	680 JA	1/16W
R1064	301 225 2019	MT-GLAZE	680 JA	1/16W
R1065	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1066	301 240 5613	MT-GLAZE	3K JA	1/16W
R1067	301 224 9019	MT-GLAZE	10K JA	1/16W
R1068	301 224 9019	MT-GLAZE	10K JA	1/16W
R1069	301 240 5613	MT-GLAZE	3K JA	1/16W
R1070	301 263 7420	MT-GLAZE	75 JA	1/16W
R1072	301 263 7420	MT-GLAZE	75 JA	1/16W
R1075	301 263 7420	MT-GLAZE	75 JA	1/16W
R1077	301 263 7420	MT-GLAZE	75 JA	1/16W
R1078	301 263 7420	MT-GLAZE	75 JA	1/16W
R1079	301 263 7420	MT-GLAZE	75 JA	1/16W
R1080	301 263 7420	MT-GLAZE	75 JA	1/16W
R1081	301 225 1418	MT-GLAZE	47K JA	1/16W
R1083	301 225 1814	MT-GLAZE	47 JA	1/16W
R1084	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1085	301 225 1814	MT-GLAZE	47 JA	1/16W
R1088	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1089	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R1091	301 225 1418	MT-GLAZE	47K JA	1/16W
R1101	301 224 8814	MT-GLAZE	100 JA	1/16W
R1105	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1111	301 260 4115	MT-GLAZE	75 JA	1/3W
R1134	301 225 1814	MT-GLAZE	47 JA	1/16W
R1150	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R1309	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1311	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1331	301 224 9415	MT-GLAZE	1M JA	1/16W
R1419	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1420	301 225 0718	MT-GLAZE	56K JA	1/16W
R1421	301 294 3313	MT-GLAZE	15K FA	1/16W
R1424	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1425	301 294 3313	MT-GLAZE	15K FA	1/16W
R1426	301 299 5411	MT-GLAZE	13K FA	1/16W
R1427	301 224 8814	MT-GLAZE	100 JA	1/16W
R1428	301 224 8814	MT-GLAZE	100 JA	1/16W
R1435	301 294 4518	MT-GLAZE	18K FA	1/16W
R1444	301 235 0012	MT-GLAZE	7.5K JA	1/16W
R1446	301 235 0012	MT-GLAZE	7.5K JA	1/16W
R1447	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R1448	301 224 9019	MT-GLAZE	10K JA	1/16W
R1458	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1459	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1470	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1471	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1890	301 225 8110	MT-GLAZE	10 JA	1/16W
R2000	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2003	301 225 0718	MT-GLAZE	56K JA	1/16W
R2004	301 225 1319	MT-GLAZE	470 JA	1/16W
R2005	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R2006	301 224 9316	MT-GLAZE	1K JA	1/16W
R2013	301 225 0718	MT-GLAZE	56K JA	1/16W
R2014	301 225 1319	MT-GLAZE	470 JA	1/16W
R2016	301 224 9316	MT-GLAZE	1K JA	1/16W
R2017	301 225 1418	MT-GLAZE	47K JA	1/16W
R2023	301 225 0718	MT-GLAZE	56K JA	1/16W
R2024	301 225 1319	MT-GLAZE	470 JA	1/16W
R2026	301 224 9316	MT-GLAZE	1K JA	1/16W
R2027	301 225 1418	MT-GLAZE	47K JA	1/16W
R2036	301 225 8110	MT-GLAZE	10 JA	1/16W
R2037	301 225 8110	MT-GLAZE	10 JA	1/16W
R2038	301 225 8110	MT-GLAZE	10 JA	1/16W
R2043	301 224 8814	MT-GLAZE	100 JA	1/16W
R2053	301 224 8814	MT-GLAZE	100 JA	1/16W
R2062	301 225 1418	MT-GLAZE	47K JA	1/16W
R2890	301 258 7517	MT-GLAZE	12 JA	1/3W
R2891	301 258 7517	MT-GLAZE	12 JA	1/3W
R2892	301 224 8814	MT-GLAZE	100 JA	1/16W
R2898	301 224 9019	MT-GLAZE	10K JA	1/16W
R300	301 224 9019	MT-GLAZE	10K JA	1/16W
R3002	301 224 8814	MT-GLAZE	100 JA	1/16W
R3012	301 224 8814	MT-GLAZE	100 JA	1/16W
R302	301 227 5612	MT-GLAZE	8.2K JA	1/16W
R3022	301 224 8814	MT-GLAZE	100 JA	1/16W
R303	301 224 9316	MT-GLAZE	1K JA	1/16W
R3032	301 224 8814	MT-GLAZE	100 JA	1/16W
R304	301 224 9316	MT-GLAZE	1K JA	1/16W
R3052	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3053	301 224 8913	MT-GLAZE	100K JA	1/16W
R3054	301 224 8913	MT-GLAZE	100K JA	1/16W
R3056	301 224 9415	MT-GLAZE	1M JA	1/16W
R3057	301 224 9910	MT-GLAZE	22K JA	1/16W
R306	401 342 7314	MT-GLAZE	23.2K FA	1/16W
R3062	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R307	301 224 9712	MT-GLAZE	22 JA	1/16W
R308	301 224 9712	MT-GLAZE	22 JA	1/16W
R309	301 224 9316	MT-GLAZE	1K JA	1/16W
R310	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R311	301 224 9316	MT-GLAZE	1K JA	1/16W
R312	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R313	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R314	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R315	301 225 1814	MT-GLAZE	47 JA	1/16W
R316	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R317	301 225 1814	MT-GLAZE	47 JA	1/16W
R318	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R319	301 224 9019	MT-GLAZE	10K JA	1/16W
R320	301 225 1814	MT-GLAZE	47 JA	1/16W
R321	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R322	301 225 0213	MT-GLAZE	3.3K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R323	301 225 1814	MT-GLAZE	47 JA	1/16W
R324	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R325	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R327	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R328	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R329	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R339	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R340	301 224 8814	MT-GLAZE	100 JA	1/16W
R341	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R342	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R343	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R344	301 225 1814	MT-GLAZE	47 JA	1/16W
R345	301 225 1814	MT-GLAZE	47 JA	1/16W
R346	301 225 1814	MT-GLAZE	47 JA	1/16W
R347	301 224 8814	MT-GLAZE	100 JA	1/16W
R348	301 224 8814	MT-GLAZE	100 JA	1/16W
R349	301 225 1814	MT-GLAZE	47 JA	1/16W
R350	301 263 7420	MT-GLAZE	75 JA	1/16W
R3502	301 225 1418	MT-GLAZE	47K JA	1/16W
R351	301 224 8814	MT-GLAZE	100 JA	1/16W
R352	301 224 8814	MT-GLAZE	100 JA	1/16W
R353	301 263 7420	MT-GLAZE	75 JA	1/16W
R3532	301 225 1418	MT-GLAZE	47K JA	1/16W
R354	301 224 8814	MT-GLAZE	100 JA	1/16W
R355	301 224 8814	MT-GLAZE	100 JA	1/16W
R356	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3562	301 225 1418	MT-GLAZE	47K JA	1/16W
R357	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3580	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3585	301 224 9019	MT-GLAZE	10K JA	1/16W
R3586	301 224 9316	MT-GLAZE	1K JA	1/16W
R3587	301 224 9019	MT-GLAZE	10K JA	1/16W
R3588	301 224 9019	MT-GLAZE	10K JA	1/16W
R359	301 225 0015	MT-GLAZE	270 JA	1/16W
R360	301 225 0015	MT-GLAZE	270 JA	1/16W
R3601	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R3602	301 224 9019	MT-GLAZE	10K JA	1/16W
R3603	301 224 9019	MT-GLAZE	10K JA	1/16W
R361	301 256 1517	MT-GLAZE	13K JA	1/10W
R3621	301 224 9019	MT-GLAZE	10K JA	1/16W
R3622	301 224 9019	MT-GLAZE	10K JA	1/16W
R3623	301 224 9019	MT-GLAZE	10K JA	1/16W
R3626	301 224 9019	MT-GLAZE	10K JA	1/16W
R3627	301 224 9019	MT-GLAZE	10K JA	1/16W
R3628	301 224 9019	MT-GLAZE	10K JA	1/16W
R363	301 224 9316	MT-GLAZE	1K JA	1/16W
R364	301 224 9316	MT-GLAZE	1K JA	1/16W
R366	301 224 9316	MT-GLAZE	1K JA	1/16W
R367	301 225 1814	MT-GLAZE	47 JA	1/16W
R368	301 225 1814	MT-GLAZE	47 JA	1/16W
R369	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R371	301 225 8110	MT-GLAZE	10 JA	1/16W
R372	301 225 8110	MT-GLAZE	10 JA	1/16W
R373	301 225 8110	MT-GLAZE	10 JA	1/16W
R376	301 225 8110	MT-GLAZE	10 JA	1/16W
R378	301 224 9019	MT-GLAZE	10K JA	1/16W
R380	301 224 9019	MT-GLAZE	10K JA	1/16W
R3801	301 225 8110	MT-GLAZE	10 JA	1/16W
R3802	301 225 8110	MT-GLAZE	10 JA	1/16W
R3803	301 225 8110	MT-GLAZE	10 JA	1/16W
R3804	301 225 8110	MT-GLAZE	10 JA	1/16W
R3806	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R382	301 263 7420	MT-GLAZE	75 JA	1/16W
R383	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R384	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3856	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3857	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3858	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3861	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3863	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3865	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3866	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3867	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3868	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R389	301 225 0817	MT-GLAZE	68K JA	1/16W
R391	301 224 9019	MT-GLAZE	10K JA	1/16W
R395	301 225 1210	MT-GLAZE	4.7K JA	1/16W
		(For KF5-XU350A00)		
R395	301 225 0817	MT-GLAZE	68K JA	1/16W
		(For KA5-XU300A00)		
R396	301 224 9019	MT-GLAZE	10K JA	1/16W
R397	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R398	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R399	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4001	301 224 8814	MT-GLAZE	100 JA	1/16W
R4009	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R401	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4014	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4016	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4017	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R402	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4023	301 224 9019	MT-GLAZE	10K JA	1/16W
R4024	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R403	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R404	301 224 9019	MT-GLAZE	10K JA	1/16W
R406	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R407	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4072	301 224 8814	MT-GLAZE	100 JA	1/16W
R4077	301 224 8814	MT-GLAZE	100 JA	1/16W
R408	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R412	301 225 1814	MT-GLAZE	47 JA	1/16W
R414	301 225 1814	MT-GLAZE	47 JA	1/16W
R416	301 225 1814	MT-GLAZE	47 JA	1/16W
R418	301 225 1814	MT-GLAZE	47 JA	1/16W
R419	301 225 1814	MT-GLAZE	47 JA	1/16W
R422	301 225 1814	MT-GLAZE	47 JA	1/16W
R423	301 225 1814	MT-GLAZE	47 JA	1/16W
R424	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R425	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4834	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R4861	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R4862	301 229 3913	MT-GLAZE	180 JA	1/16W
R4863	301 229 3913	MT-GLAZE	180 JA	1/16W
R5001	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5002	301 225 8110	MT-GLAZE	10 JA	1/16W
R5003	301 225 8110	MT-GLAZE	10 JA	1/16W
R5004	301 224 8913	MT-GLAZE	100K JA	1/16W
R5005	301 224 8913	MT-GLAZE	100K JA	1/16W
R5006	301 224 8913	MT-GLAZE	100K JA	1/16W
R5007	301 224 8913	MT-GLAZE	100K JA	1/16W
R501	301 224 8814	MT-GLAZE	100 JA	1/16W
R502	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5021	301 224 8913	MT-GLAZE	100K JA	1/16W
R5022	301 224 8913	MT-GLAZE	100K JA	1/16W
R503	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5031	301 224 8814	MT-GLAZE	100 JA	1/16W
R5032	301 224 8814	MT-GLAZE	100 JA	1/16W
R5033	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5034	301 224 9316	MT-GLAZE	1K JA	1/16W
R5036	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5037	301 224 9316	MT-GLAZE	1K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R5039	301 229 7218	MT-GLAZE	18K JA	1/16W
R504	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5040	301 224 9019	MT-GLAZE	10K JA	1/16W
R5041	301 224 9316	MT-GLAZE	1K JA	1/16W
R5042	301 224 9316	MT-GLAZE	1K JA	1/16W
R5043	301 224 9019	MT-GLAZE	10K JA	1/16W
R5046	301 224 9019	MT-GLAZE	10K JA	1/16W
R5047	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R5048	301 224 9316	MT-GLAZE	1K JA	1/16W
R505	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5051	301 224 9019	MT-GLAZE	10K JA	1/16W
R5052	301 224 9910	MT-GLAZE	22K JA	1/16W
R5053	301 224 9910	MT-GLAZE	22K JA	1/16W
R5061	301 224 9316	MT-GLAZE	1K JA	1/16W
R5062	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5063	301 224 9316	MT-GLAZE	1K JA	1/16W
R5064	301 224 9316	MT-GLAZE	1K JA	1/16W
R5066	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5067	301 224 9316	MT-GLAZE	1K JA	1/16W
R5069	301 225 8011	MT-GLAZE	330 JA	1/16W
R508	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5082	301 224 9316	MT-GLAZE	1K JA	1/16W
R509	301 224 8814	MT-GLAZE	100 JA	1/16W
R5090	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5092	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R511	301 224 8814	MT-GLAZE	100 JA	1/16W
R512	301 224 8814	MT-GLAZE	100 JA	1/16W
R513	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R514	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R516	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R517	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R518	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5213	301 224 8814	MT-GLAZE	100 JA	1/16W
R5215	301 224 8814	MT-GLAZE	100 JA	1/16W
R5220	301 224 8814	MT-GLAZE	100 JA	1/16W
R5223	301 224 8814	MT-GLAZE	100 JA	1/16W
R5303	301 225 0312	MT-GLAZE	33 JA	1/16W
R531	301 224 8814	MT-GLAZE	100 JA	1/16W
R5317	301 225 1814	MT-GLAZE	47 JA	1/16W
R5318	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R532	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R533	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5331	301 225 8615	MT-GLAZE	560K JA	1/16W
R5332	301 224 9316	MT-GLAZE	1K JA	1/16W
R5333	301 224 9316	MT-GLAZE	1K JA	1/16W
R5334	301 224 9019	MT-GLAZE	10K JA	1/16W
R5336	301 224 9316	MT-GLAZE	1K JA	1/16W
R5337	301 224 9316	MT-GLAZE	1K JA	1/16W
R5338	301 226 2414	MT-GLAZE	560 JA	1/16W
R5342	301 225 0718	MT-GLAZE	56K JA	1/16W
R5343	301 224 9316	MT-GLAZE	1K JA	1/16W
R5346	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5348	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R535	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R536	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R537	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R539	301 224 8814	MT-GLAZE	100 JA	1/16W
R540	301 294 3313	MT-GLAZE	15K FA	1/16W
R541	301 224 8814	MT-GLAZE	100 JA	1/16W
R542	301 224 8814	MT-GLAZE	100 JA	1/16W
R543	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R544	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R546	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R547	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R548	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R549	301 299 2410	MT-GLAZE	5.6K FA	1/16W
R5540	301 224 9316	MT-GLAZE	1K JA	1/16W
R5541	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R5542	301 224 9316	MT-GLAZE	1K JA	1/16W
R5543	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R560	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5607	301 224 9316	MT-GLAZE	1K JA	1/16W
R561	301 224 8814	MT-GLAZE	100 JA	1/16W
R5611	301 224 8814	MT-GLAZE	100 JA	1/16W
R5613	301 224 9019	MT-GLAZE	10K JA	1/16W
R5614	301 224 9316	MT-GLAZE	1K JA	1/16W
R5619	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R562	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5620	301 224 9019	MT-GLAZE	10K JA	1/16W
R5622	301 190 1710	MT-GLAZE	0.000 ZA	1W
R563	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R564	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R566	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R569	301 224 8814	MT-GLAZE	100 JA	1/16W
R5692	301 190 1710	MT-GLAZE	0.000 ZA	1W
R5701	301 259 7823	MT-GLAZE	20K JA	1/16W
R5702	301 225 0718	MT-GLAZE	56K JA	1/16W
R5703	301 224 9019	MT-GLAZE	10K JA	1/16W
R5704	301 224 8814	MT-GLAZE	100 JA	1/16W
R5705	301 224 9019	MT-GLAZE	10K JA	1/16W
R5706	301 224 9019	MT-GLAZE	10K JA	1/16W
R5709	301 230 8013	MT-GLAZE	1K JA	1/3W
R571	301 224 8814	MT-GLAZE	100 JA	1/16W
R5710	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5711	301 301 3718	MT-GLAZE	2K FA	1/16W
R5712	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R5716	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R5717	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R572	301 224 8814	MT-GLAZE	100 JA	1/16W
R573	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R574	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5751	301 224 9019	MT-GLAZE	10K JA	1/16W
R5752	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5753	301 224 9316	MT-GLAZE	1K JA	1/16W
R5754	301 224 9019	MT-GLAZE	10K JA	1/16W
R5755	301 224 9019	MT-GLAZE	10K JA	1/16W
R5757	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5758	301 224 9019	MT-GLAZE	10K JA	1/16W
R5759	301 224 9316	MT-GLAZE	1K JA	1/16W
R576	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5760	301 224 9019	MT-GLAZE	10K JA	1/16W
R577	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R578	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5821	301 225 2118	MT-GLAZE	12K JA	1/16W
R5822	301 224 8913	MT-GLAZE	100K JA	1/16W
R5823	301 294 3016	MT-GLAZE	10K FA	1/16W
R5824	301 294 3511	MT-GLAZE	27K FA	1/16W
R5825	301 225 2019	MT-GLAZE	680 JA	1/16W
R5841	301 294 3115	MT-GLAZE	1K FA	1/16W
R5842	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5860	301 265 5810	MT-GLAZE	82K FA	1/10W
R5861	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R5863	301 294 3016	MT-GLAZE	10K FA	1/16W
R5864	301 294 3016	MT-GLAZE	10K FA	1/16W
R5865	301 225 2019	MT-GLAZE	680 JA	1/16W
R593	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R594	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R595	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R596	301 294 3016	MT-GLAZE	10K FA	1/16W
R597	301 294 4419	MT-GLAZE	1.8K FA	1/16W
R598	301 301 0410	MT-GLAZE	240 FA	1/16W
R599	301 224 9316	MT-GLAZE	1K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		
R6801	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6803	301 224 9019	MT-GLAZE	10K JA	1/16W
R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6806	301 224 9217	MT-GLAZE	15K JA	1/16W
R6807	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R6808	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6809	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6811	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6813	301 224 9019	MT-GLAZE	10K JA	1/16W
R6822	301 224 9316	MT-GLAZE	1K JA	1/16W
R6823	301 224 9019	MT-GLAZE	10K JA	1/16W
R6831	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6833	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6842	301 229 3913	MT-GLAZE	180 JA	1/16W
R6843	301 229 3913	MT-GLAZE	180 JA	1/16W
R6845	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6848	301 225 8011	MT-GLAZE	330 JA	1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6857	301 229 3913	MT-GLAZE	180 JA	1/16W
R6858	301 229 3913	MT-GLAZE	180 JA	1/16W
R6867	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R6870	301 225 8011	MT-GLAZE	330 JA	1/16W
R6873	301 229 3913	MT-GLAZE	180 JA	1/16W
R6874	301 224 9019	MT-GLAZE	10K JA	1/16W
R6877	301 224 9019	MT-GLAZE	10K JA	1/16W
R6881	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6882	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6883	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R691	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R692	301 150 6212	MT-GLAZE	1K JA	1/10W
R7803	301 276 3010	MT-GLAZE	75K JA	1/16W
R7805	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7816	301 225 8110	MT-GLAZE	10 JA	1/16W
R7818	301 294 3016	MT-GLAZE	10K FA	1/16W
R7819	301 224 8913	MT-GLAZE	100K JA	1/16W
R7821	301 294 3511	MT-GLAZE	27K FA	1/16W
R7823	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7824	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7825	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7826	301 224 9019	MT-GLAZE	10K JA	1/16W
R7827	301 224 9019	MT-GLAZE	10K JA	1/16W
R7828	301 224 9019	MT-GLAZE	10K JA	1/16W
R7829	301 224 9316	MT-GLAZE	1K JA	1/16W
R7831	301 224 9316	MT-GLAZE	1K JA	1/16W
R7832	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7833	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7834	301 286 4717	MT-GLAZE	30K JA	1/16W
R7836	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R7840	301 224 9316	MT-GLAZE	1K JA	1/16W
R7841	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7842	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7843	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7844	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R7845	301 224 9316	MT-GLAZE	1K JA	1/16W
R7846	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7847	301 286 4717	MT-GLAZE	30K JA	1/16W
R7848	301 224 9019	MT-GLAZE	10K JA	1/16W
R7866	301 225 8110	MT-GLAZE	10 JA	1/16W
R7869	301 224 8913	MT-GLAZE	100K JA	1/16W
R7871	301 294 3511	MT-GLAZE	27K FA	1/16W
R7874	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7878	301 224 9019	MT-GLAZE	10K JA	1/16W
R7879	301 224 9316	MT-GLAZE	1K JA	1/16W
R7881	301 224 9316	MT-GLAZE	1K JA	1/16W
R7882	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R7883	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R7884	301 286 4717	MT-GLAZE	30K JA	1/16W
R801	301 224 9019	MT-GLAZE	10K JA	1/16W
R8039	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R804	301 224 9019	MT-GLAZE	10K JA	1/16W
R8040	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8049	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8050	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8059	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8069	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R807	301 224 9019	MT-GLAZE	10K JA	1/16W
R808	301 224 9019	MT-GLAZE	10K JA	1/16W
R809	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R812	301 224 9316	MT-GLAZE	1K JA	1/16W
R813	301 224 9316	MT-GLAZE	1K JA	1/16W
R846	301 224 9316	MT-GLAZE	1K JA	1/16W
R851	301 224 9316	MT-GLAZE	1K JA	1/16W
R852	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8801	301 224 9316	MT-GLAZE	1K JA	1/16W
R8802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8804	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8805	301 224 9316	MT-GLAZE	1K JA	1/16W
R8806	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8807	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8808	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8812	301 225 8110	MT-GLAZE	10 JA	1/16W
R8814	301 224 9415	MT-GLAZE	1M JA	1/16W
R8816	301 264 6511	MT-GLAZE	2.2K FA	1/10W
R8821	301 225 8110	MT-GLAZE	10 JA	1/16W
R8833	301 225 7915	MT-GLAZE	220 JA	1/16W
R8834	301 224 9712	MT-GLAZE	22 JA	1/16W
R8837	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8838	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8839	301 225 7915	MT-GLAZE	220 JA	1/16W
R8840	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8841	301 224 9019	MT-GLAZE	10K JA	1/16W
R8843	301 224 9019	MT-GLAZE	10K JA	1/16W
R8844	301 224 9019	MT-GLAZE	10K JA	1/16W
R8845	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R8846	301 224 8913	MT-GLAZE	100K JA	1/16W
R8847	301 225 8011	MT-GLAZE	330 JA	1/16W
R8850	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R8851	301 224 8814	MT-GLAZE	100 JA	1/16W
R8852	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8853	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8861	301 225 8110	MT-GLAZE	10 JA	1/16W
R8864	301 225 8110	MT-GLAZE	10 JA	1/16W
R8881	301 224 9019	MT-GLAZE	10K JA	1/16W
R891	301 224 8814	MT-GLAZE	100 JA	1/16W
R898	301 224 8814	MT-GLAZE	100 JA	1/16W
R9611	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R9612	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R9613	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R9631	301 224 9316	MT-GLAZE	1K JA	1/16W
R9632	301 224 9019	MT-GLAZE	10K JA	1/16W
R9633	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R9634	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R9644	301 224 9316	MT-GLAZE	1K JA	1/16W
R9645	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R9646	301 224 9019	MT-GLAZE	10K JA	1/16W
R9647	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R9648	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R9755	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R9873	301 255 7312	MT-GLAZE	510K JA	1/10W
R9874	301 224 8913	MT-GLAZE	100K JA	1/16W
R9875	301 224 8913	MT-GLAZE	100K JA	1/16W
R9876	301 225 8110	MT-GLAZE	10 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description
R9878	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R9879	301 224 9019	MT-GLAZE 10K JA 1/16W
R9881	301 224 9019	MT-GLAZE 10K JA 1/16W
R9882	301 225 8110	MT-GLAZE 10 JA 1/16W
R9883	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9884	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9886	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9887	301 224 9019	MT-GLAZE 10K JA 1/16W
R9888	301 224 9316	MT-GLAZE 1K JA 1/16W
R9889	301 225 8110	MT-GLAZE 10 JA 1/16W
R9890	301 225 8110	MT-GLAZE 10 JA 1/16W
R9891	301 225 8110	MT-GLAZE 10 JA 1/16W
R9892	301 224 9019	MT-GLAZE 10K JA 1/16W
R9893	301 224 9019	MT-GLAZE 10K JA 1/16W
R9894	301 224 9019	MT-GLAZE 10K JA 1/16W
R9897	301 224 9712	MT-GLAZE 22 JA 1/16W
R9898	301 224 9712	MT-GLAZE 22 JA 1/16W
R9899	301 224 9712	MT-GLAZE 22 JA 1/16W
R9900	301 224 9712	MT-GLAZE 22 JA 1/16W
R9902	301 224 9019	MT-GLAZE 10K JA 1/16W
R9903	301 224 9019	MT-GLAZE 10K JA 1/16W
R9904	301 224 9019	MT-GLAZE 10K JA 1/16W
R9905	301 224 9019	MT-GLAZE 10K JA 1/16W
R9906	301 225 0817	MT-GLAZE 68K JA 1/16W
R9907	301 224 8814	MT-GLAZE 100 JA 1/16W
R9908	301 224 8814	MT-GLAZE 100 JA 1/16W
R9909	301 224 8814	MT-GLAZE 100 JA 1/16W
R9914	301 224 9019	MT-GLAZE 10K JA 1/16W
R9915	301 224 9019	MT-GLAZE 10K JA 1/16W
R9916	301 224 9019	MT-GLAZE 10K JA 1/16W
RB312	945 037 0831	R-NETWORK 47X4 1/16W
RB313	945 037 0831	R-NETWORK 47X4 1/16W
RB316	945 037 0831	R-NETWORK 47X4 1/16W
RB318	945 037 0831	R-NETWORK 47X4 1/16W
RB319	945 037 0831	R-NETWORK 47X4 1/16W
RB411	945 037 0831	R-NETWORK 47X4 1/16W
RB412	945 037 0831	R-NETWORK 47X4 1/16W
RB413	945 037 0831	R-NETWORK 47X4 1/16W
RB414	945 037 0831	R-NETWORK 47X4 1/16W
RB416	945 037 0831	R-NETWORK 47X4 1/16W
RB417	945 037 0831	R-NETWORK 47X4 1/16W
RB418	945 037 0831	R-NETWORK 47X4 1/16W
RB419	945 037 0831	R-NETWORK 47X4 1/16W
RB421	945 037 0831	R-NETWORK 47X4 1/16W
RB422	945 037 0831	R-NETWORK 47X4 1/16W
RB423	945 037 0831	R-NETWORK 47X4 1/16W
RB424	945 037 0831	R-NETWORK 47X4 1/16W
RB426	945 037 0831	R-NETWORK 47X4 1/16W
RB427	945 037 0831	R-NETWORK 47X4 1/16W
RB428	945 037 0831	R-NETWORK 47X4 1/16W
RB429	945 037 0831	R-NETWORK 47X4 1/16W
RB431	945 037 0831	R-NETWORK 47X4 1/16W
RB432	945 037 0831	R-NETWORK 47X4 1/16W
RB433	945 037 0831	R-NETWORK 47X4 1/16W
RB434	945 037 0831	R-NETWORK 47X4 1/16W
RB436	945 037 0831	R-NETWORK 47X4 1/16W
RB437	945 037 0831	R-NETWORK 47X4 1/16W
RB501	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB502	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB503	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB504	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB506	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB507	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB508	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB531	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB532	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB533	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB534	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB536	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB537	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB538	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB561	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB562	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB563	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB564	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB566	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB567	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB568	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB9881	945 028 0697	R-NETWORK 100X4 1/16W
COIL		
L1002	945 068 8349	FILTER,EMI 400MHZ
L1012	945 068 8349	FILTER,EMI 400MHZ
L1022	945 068 8349	FILTER,EMI 400MHZ
L1031	945 068 8332	FILTER,EMI 200MHZ
L1041	945 068 8332	FILTER,EMI 200MHZ
L1051	945 068 8349	FILTER,EMI 400MHZ
L1061	945 068 8349	FILTER,EMI 400MHZ
L1071	945 068 8349	FILTER,EMI 400MHZ
L1081	945 068 8332	FILTER,EMI 200MHZ
L1091	945 068 8332	FILTER,EMI 200MHZ
L1421	945 041 1978	INDUCTOR,330 OHM
L2891	945 086 5368	IMPEDANCE,220 OHM P
L2892	945 018 9327	INDUCTOR,1000 OHM
L2893	945 018 9327	INDUCTOR,1000 OHM
L2894	945 086 6037	IMPEDANCE,330 OHM P
L2895	945 086 6037	IMPEDANCE,330 OHM P
L2896	945 086 6037	IMPEDANCE,330 OHM P
L2897	945 086 6037	IMPEDANCE,330 OHM P
L2898	945 086 6037	IMPEDANCE,330 OHM P
L2899	945 018 9327	INDUCTOR,1000 OHM
L301	945 086 5368	IMPEDANCE,220 OHM P
L302	945 086 5368	IMPEDANCE,220 OHM P
L303	945 086 5368	IMPEDANCE,220 OHM P
L304	945 086 5368	IMPEDANCE,220 OHM P
L305	945 086 5368	IMPEDANCE,220 OHM P
L3051	945 068 8325	FILTER,EMI 20MHZ
L306	945 086 5368	IMPEDANCE,220 OHM P
L3061	945 068 8325	FILTER,EMI 20MHZ
L307	945 086 5368	IMPEDANCE,220 OHM P
L308	945 086 5368	IMPEDANCE,220 OHM P
L309	945 086 5368	IMPEDANCE,220 OHM P

Electrical Parts List

Key No.	Part No.	Description
L311	945 086 5368	IMPEDANCE,220 OHM P
L312	945 086 5368	IMPEDANCE,220 OHM P
L313	945 086 5368	IMPEDANCE,220 OHM P
L314	945 086 5368	IMPEDANCE,220 OHM P
L3501	945 041 1978	INDUCTOR,330 OHM
L3531	945 041 1978	INDUCTOR,330 OHM
L3534	945 041 2210	INDUCTOR,0.12U K
L3561	945 041 1978	INDUCTOR,330 OHM
L3621	945 086 5368	IMPEDANCE,220 OHM P
L3622	945 086 5368	IMPEDANCE,220 OHM P
L3623	945 086 5368	IMPEDANCE,220 OHM P
L3626	945 086 5368	IMPEDANCE,220 OHM P
L3627	945 086 5368	IMPEDANCE,220 OHM P
L3628	945 018 9327	INDUCTOR,1000 OHM
L3629	945 086 5368	IMPEDANCE,220 OHM P
L3630	945 086 5368	IMPEDANCE,220 OHM P
L3631	945 018 9327	INDUCTOR,1000 OHM
L3632	945 086 5368	IMPEDANCE,220 OHM P
L3633	945 018 9327	INDUCTOR,1000 OHM
L3634	945 086 5368	IMPEDANCE,220 OHM P
L3638	945 018 9327	INDUCTOR,1000 OHM
L3639	945 086 5368	IMPEDANCE,220 OHM P
L3641	945 018 9327	INDUCTOR,1000 OHM
L3642	945 086 5368	IMPEDANCE,220 OHM P
L3691	945 018 9327	INDUCTOR,1000 OHM
L3692	945 086 5368	IMPEDANCE,220 OHM P
L402	945 041 1978	INDUCTOR,330 OHM
L4809	945 018 9327	INDUCTOR,1000 OHM
L4810	945 018 9327	INDUCTOR,1000 OHM
L4811	945 018 9327	INDUCTOR,1000 OHM
L4812	945 086 5368	IMPEDANCE,220 OHM P
L4814	945 018 9327	INDUCTOR,1000 OHM
L501	945 041 1978	INDUCTOR,330 OHM
L502	945 041 1978	INDUCTOR,330 OHM
L5031	945 086 5368	IMPEDANCE,220 OHM P
L5032	945 086 5368	IMPEDANCE,220 OHM P
L531	945 041 1978	INDUCTOR,330 OHM
L532	945 041 1978	INDUCTOR,330 OHM
L5332	945 032 8344	INDUCTOR,39U J
L5602	945 041 1978	INDUCTOR,330 OHM
L5606	945 041 1978	INDUCTOR,330 OHM
L5608	945 041 1978	INDUCTOR,330 OHM
L5609	945 041 1978	INDUCTOR,330 OHM
L561	945 041 1978	INDUCTOR,330 OHM
L562	945 041 1978	INDUCTOR,330 OHM
L5662	945 041 1978	INDUCTOR,330 OHM
L5701	945 041 1978	INDUCTOR,330 OHM
L5702	945 041 1978	INDUCTOR,330 OHM
L5703	945 041 1978	INDUCTOR,330 OHM
L5821	945 062 2930	INDUCTOR,10U M
L5822	945 041 1978	INDUCTOR,330 OHM
L5825	945 041 1978	INDUCTOR,330 OHM
L5826	945 041 1978	INDUCTOR,330 OHM
L5827	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5828	945 041 1978	INDUCTOR,330 OHM
L5848	945 041 1978	INDUCTOR,330 OHM
L5861	945 062 2930	INDUCTOR,10U M
L5862	945 041 1978	INDUCTOR,330 OHM
L5867	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5868	945 041 1978	INDUCTOR,330 OHM
L7811	945 062 2855	INDUCTOR,33U M
L7861	945 062 2855	INDUCTOR,33U M
L8166	945 086 5368	IMPEDANCE,220 OHM P
L8801	945 068 8318	FILTER,EMI 100MHZ
L8835	645 100 9340	IMPEDANCE,120 OHM P
L8836	645 100 9340	IMPEDANCE,120 OHM P

Key No.	Part No.	Description
DIODE		
D1041	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1042	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1091	307 205 5216	DIODE RB521S-30-TE61
D1092	307 205 5216	DIODE RB521S-30-TE61
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2893	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2894	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D3051	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3601	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3602	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3603	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3604	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3606	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3611	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3613	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3614	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3617	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3621	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3622	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3623	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3626	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3627	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3628	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3644	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5031	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5032	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5061	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5062	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5300	307 210 5416	DIODE RB551V-30-TE-17
D5602	307 210 5416	DIODE RB551V-30-TE-17
D5603	307 210 5416	DIODE RB551V-30-TE-17
D5622	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5623	307 235 0816	DIODE 1SS387 TPL3

Electrical Parts List

Key No.	Part No.	Description
	307 210 1923	DIODE 1SS400 TE-61
D5624	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D591	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D592	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6831	307 209 7513	LED SML-210YT T86 L
D6833	307 203 7816	LED SML-210LT T86 M
D6835	307 222 4810	LED SML-521MUW T86
D6841	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6842	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6845	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6846	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6848	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6850	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6851	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6852	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6853	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6874	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6877	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D7812	307 254 2716	DIODE CMS16
D7862	307 254 2716	DIODE CMS16
D8801	307 209 7513	LED SML-210YT T86 L
MISCELLANEOUS		
K10B	952 001 8601	SOCKET,D-SUB 15P
K10C	952 001 8571	SOCKET,D-SUB 15P
K40B	652 002 8135	PLUG,D-SUB 9P
K9602	645 093 6760	TRANS,PULSE
SC1030	945 076 3503	SURGE-ABSORBER
SC1041	945 076 3503	SURGE-ABSORBER
SC1081	945 076 3503	SURGE-ABSORBER
SC1091	945 076 3503	SURGE-ABSORBER
SC3081	945 076 3503	SURGE-ABSORBER
SC3082	945 076 3503	SURGE-ABSORBER
SC5031	945 076 3503	SURGE-ABSORBER
SC5032	945 076 3503	SURGE-ABSORBER
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6810	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
X1331	945 088 7179	OSC,CRYSTAL 27.0MHZ
X8802	945 083 7556	OSC,CRYSTAL 25.0MHZ
X9885	945 060 9900	OSC,CERAMIC 8.00MHZ

655 003 4427 ASSY,PWB,AV KF5AE

CAPACITOR				
C2001	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3051	303 454 0910	CERAMIC	100P J	50V
C3061	303 454 0910	CERAMIC	100P J	50V
RESISTOR				
R2001	301 260 4115	MT-GLAZE	75 JA	1/3W
R2002	301 224 8814	MT-GLAZE	100 JA	1/16W
R2008	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2010	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2012	301 260 4115	MT-GLAZE	75 JA	1/3W
R2022	301 260 4115	MT-GLAZE	75 JA	1/3W
R2051	301 150 5819	MT-GLAZE	100K JA	1/10W
R2052	301 150 5819	MT-GLAZE	100K JA	1/10W
R3001	301 150 5819	MT-GLAZE	100K JA	1/10W
R3011	301 150 5819	MT-GLAZE	100K JA	1/10W
R3021	301 224 8913	MT-GLAZE	100K JA	1/16W
R3031	301 150 5819	MT-GLAZE	100K JA	1/10W
R3051	301 150 5819	MT-GLAZE	100K JA	1/10W
R3061	301 255 6513	MT-GLAZE	100 JA	1/10W
R3063	301 150 5819	MT-GLAZE	100K JA	1/10W
R3064	301 255 6513	MT-GLAZE	100 JA	1/10W
COIL				
L2011	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
L2021	301 037 5017	MT-GLAZE	0.000 ZA	1/10W

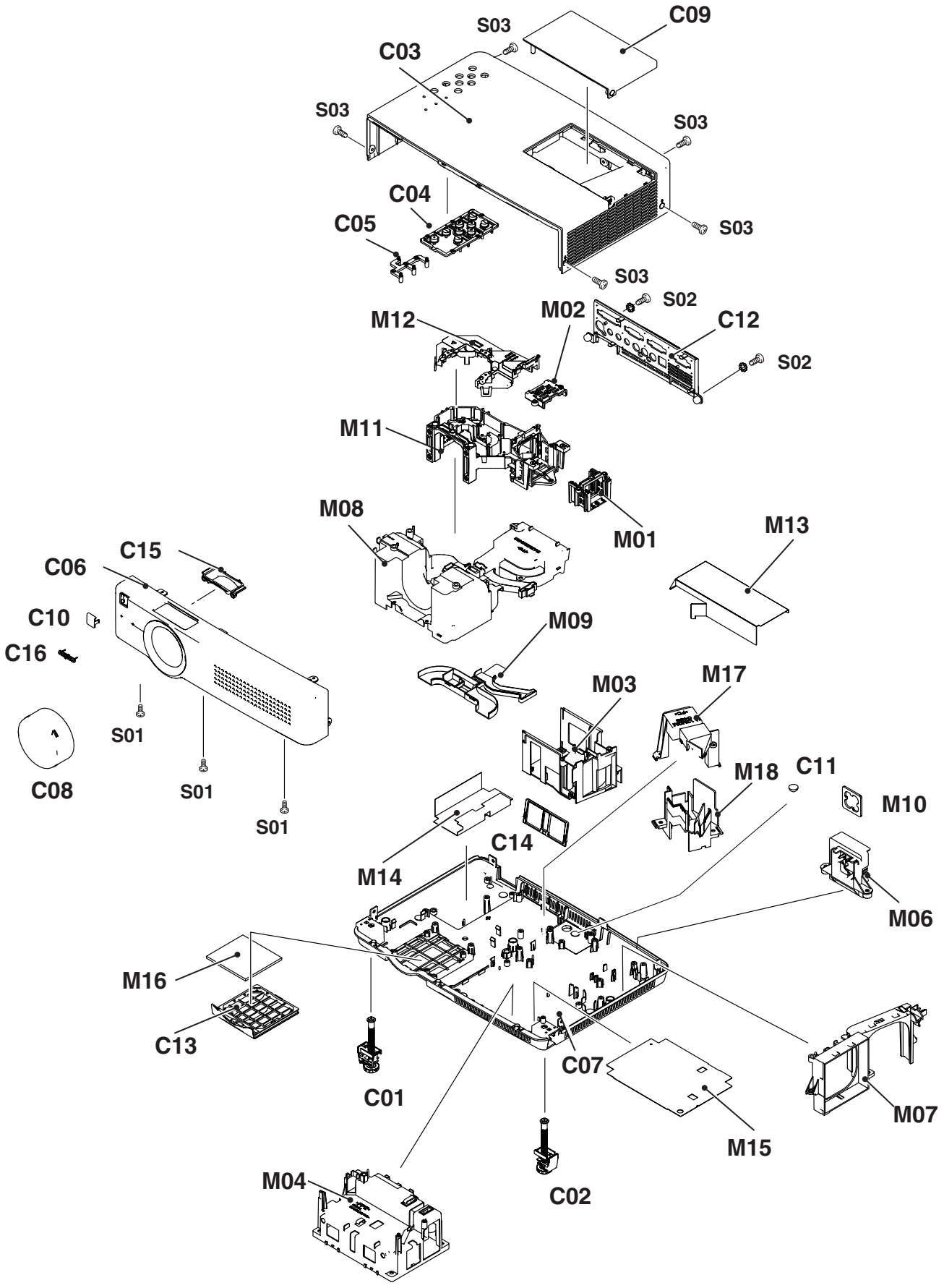
MISCELLANEOUS		
K20A	945 068 3740	JACK,RCA-3
K20B	645 089 9041	SOCKET,DIN 4P
	952 001 4740	SOCKET,DIN 4P
K30A	945 006 4792	JACK,PHONE D3.6
	952 001 0070	JACK,PHONE D3.6
	952 001 0971	JACK,PHONE D3.5
K30B	945 006 4792	JACK,PHONE D3.6
	952 001 0070	JACK,PHONE D3.6
	952 001 0971	JACK,PHONE D3.5
K30C	945 006 4792	JACK,PHONE D3.6
	952 001 0070	JACK,PHONE D3.6
	952 001 0971	JACK,PHONE D3.5
SC2001	945 076 3503	SURGE-ABSORBER
SC2011	945 076 3503	SURGE-ABSORBER
SC2021	945 076 3503	SURGE-ABSORBER
SC2051	945 076 3503	SURGE-ABSORBER
SC2052	945 076 3503	SURGE-ABSORBER
SC3001	945 076 3503	SURGE-ABSORBER
SC3011	945 076 3503	SURGE-ABSORBER
SC3021	945 076 3503	SURGE-ABSORBER
SC3031	945 076 3503	SURGE-ABSORBER
SC3051	945 076 3503	SURGE-ABSORBER
SC3061	945 076 3503	SURGE-ABSORBER

Electrical Parts List

Key No.	Part No.	Description		
655 003 4410 ASSY,PWB,RC KF5AE				
CAPACITOR				
C2901	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2902	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C2903	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8833	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R2901	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2903	301 224 8814	MT-GLAZE	100 JA	1/16W
R8831	301 225 8110	MT-GLAZE	10 JA	1/16W
R8832	301 225 8110	MT-GLAZE	10 JA	1/16W
MISCELLANEOUS				
A2901	652 002 3352	UNIT,REMOCON,RECEIVER		
SC2091	945 076 3503	SURGE-ABSORBER		
SC2092	945 076 3503	SURGE-ABSORBER		
655 003 4540 ASSY,PWB,ID CONNECT KF5AE				
RESISTOR				
R8738	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
COIL				
L8731	945 086 6037	IMPEDANCE,330 OHM P		
L8732	945 086 6037	IMPEDANCE,330 OHM P		
L8733	945 086 6037	IMPEDANCE,330 OHM P		
L8734	945 086 6037	IMPEDANCE,330 OHM P		
L8737	945 086 6037	IMPEDANCE,330 OHM P		
PACKING MATERIALS				
	610 347 6933	CARTON CASE-KF5AE (For KF5-XU350A00)		
	610 347 6940	CARTON CASE-KA5AE (For KA5-XU300A00)		
	610 340 0297	POLY BAG-KB3AC		
	610 344 5762	CUSHION SPACER-KG5AC		
	610 343 1659	CUSHION TOP-KG5AC		
	610 343 1642	CUSHION BTM-KG5AC		
ACCESSORIES				
OWNER'S MANUAL				
	610 343 6456	CD-ROM(PJ NW MANAGER)		
	610 347 6889	CD-ROM,OWNERS MANUAL-KF5AE		
	655 003 3475	SAFETY MANUAL-KG5AC		
	655 003 2881	SETUP INST-KF5AE		
REMOTE CONTROL				
	645 099 3213	ASSY,REMOCON CXZR		
	610 344 9944	RC-BATTERY LID-MXAC		
AC CORD				
⚠US	645 093 3028	CORD,POWER-2.3MK,US		
⚠EU	645 093 2984	CORD,POWER-2.3MK,EU		
⚠UK	645 093 3004	CORD,POWER-2.3MK,UK		
MISCELLANEOUS				
	610 343 0249	STRAP CAP-KT7AC		
	610 342 8024	CARRY BAG-KL6A		
	945 073 4855	CABLE,INTERFACE VGA		
	645 093 1642	CABLE,INTERFACE VGA		

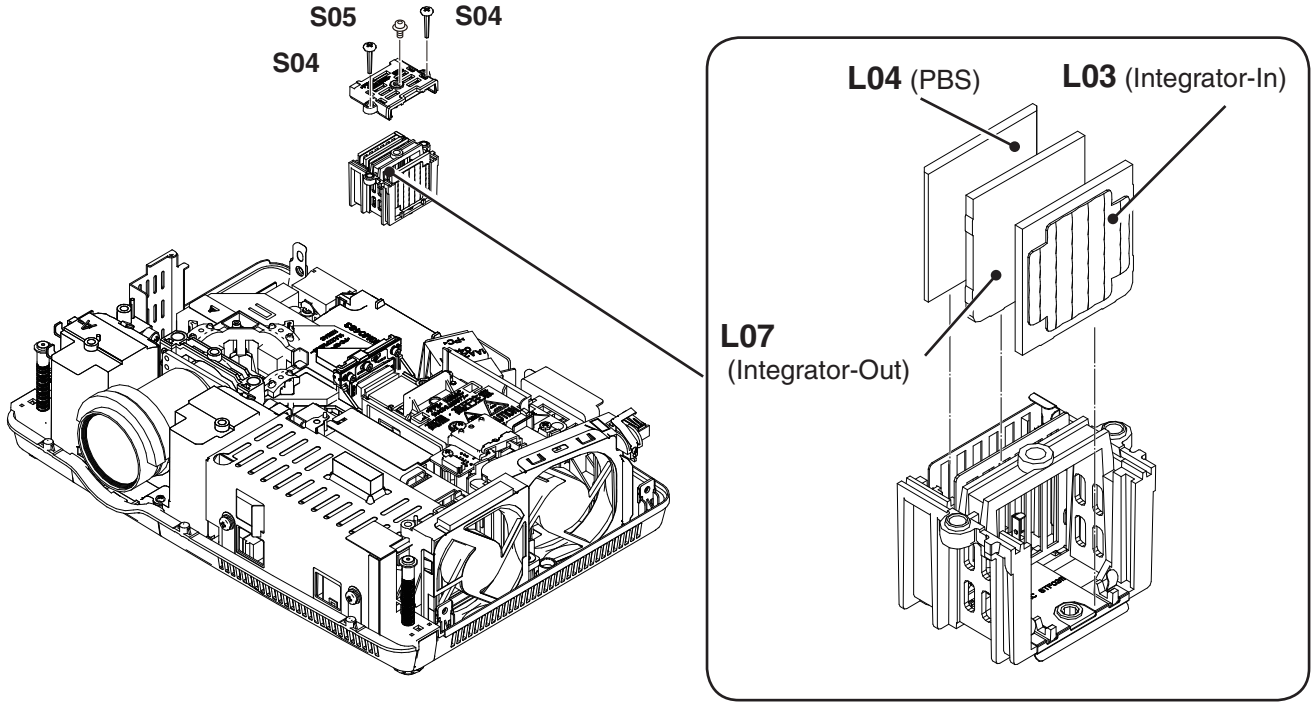
Mechanical Parts List

Cabinet Parts Location

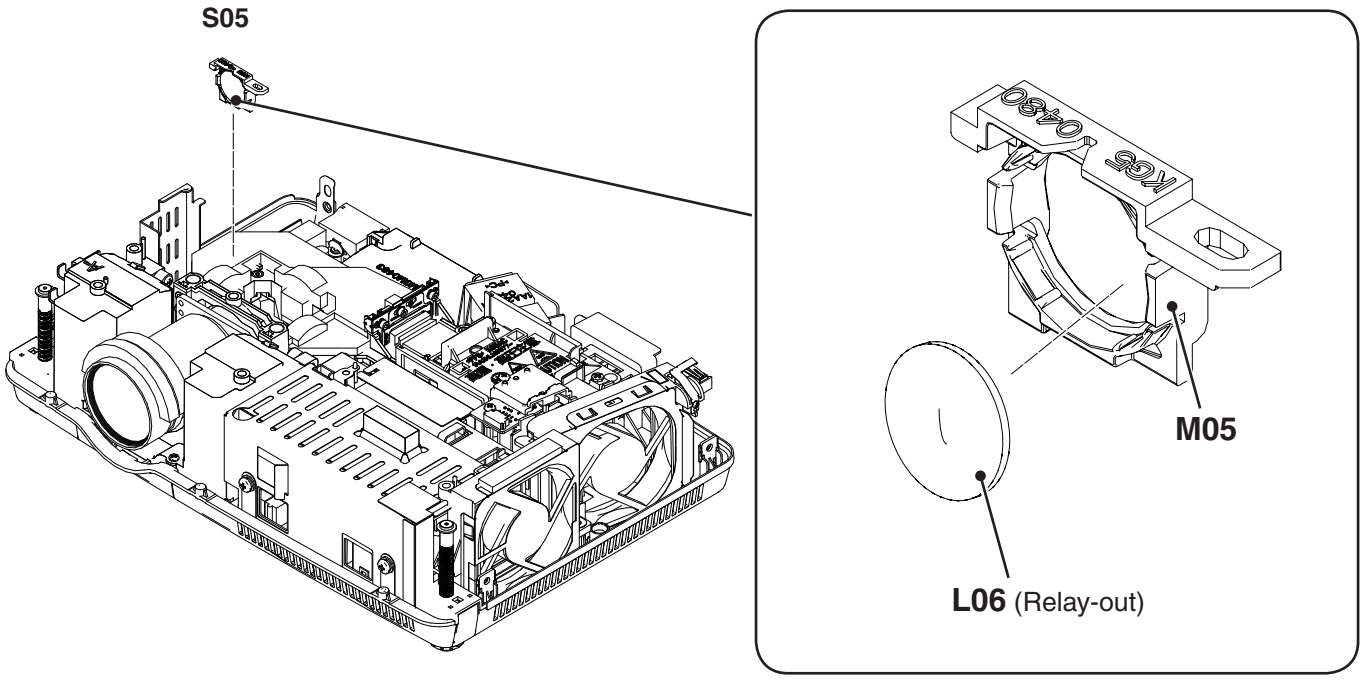


Optical Parts Location

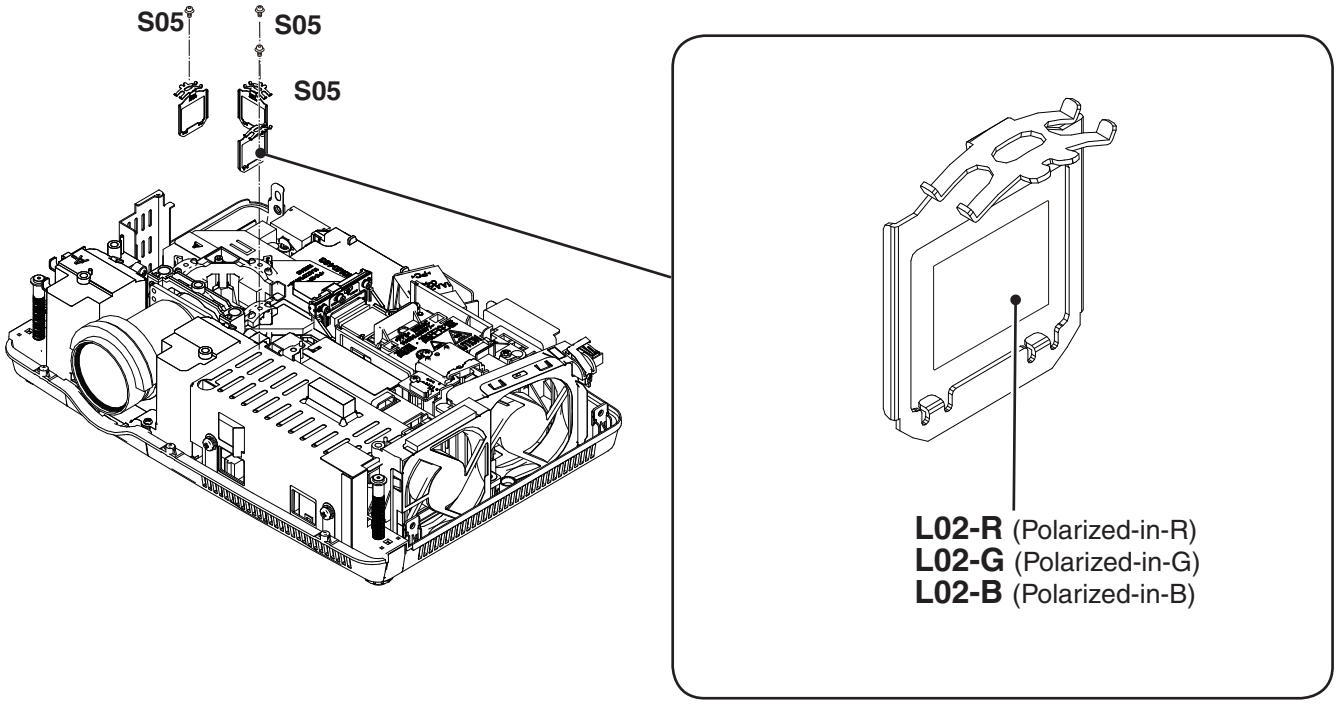
Integrator Lens-In



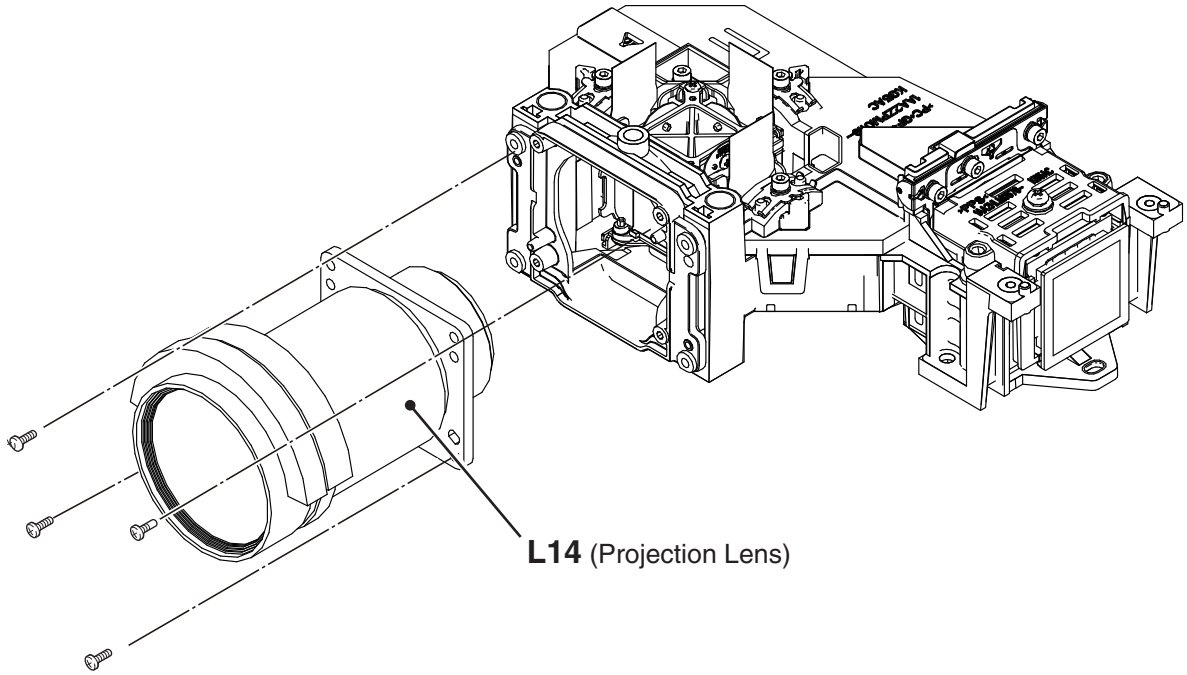
Relay Lens-Out



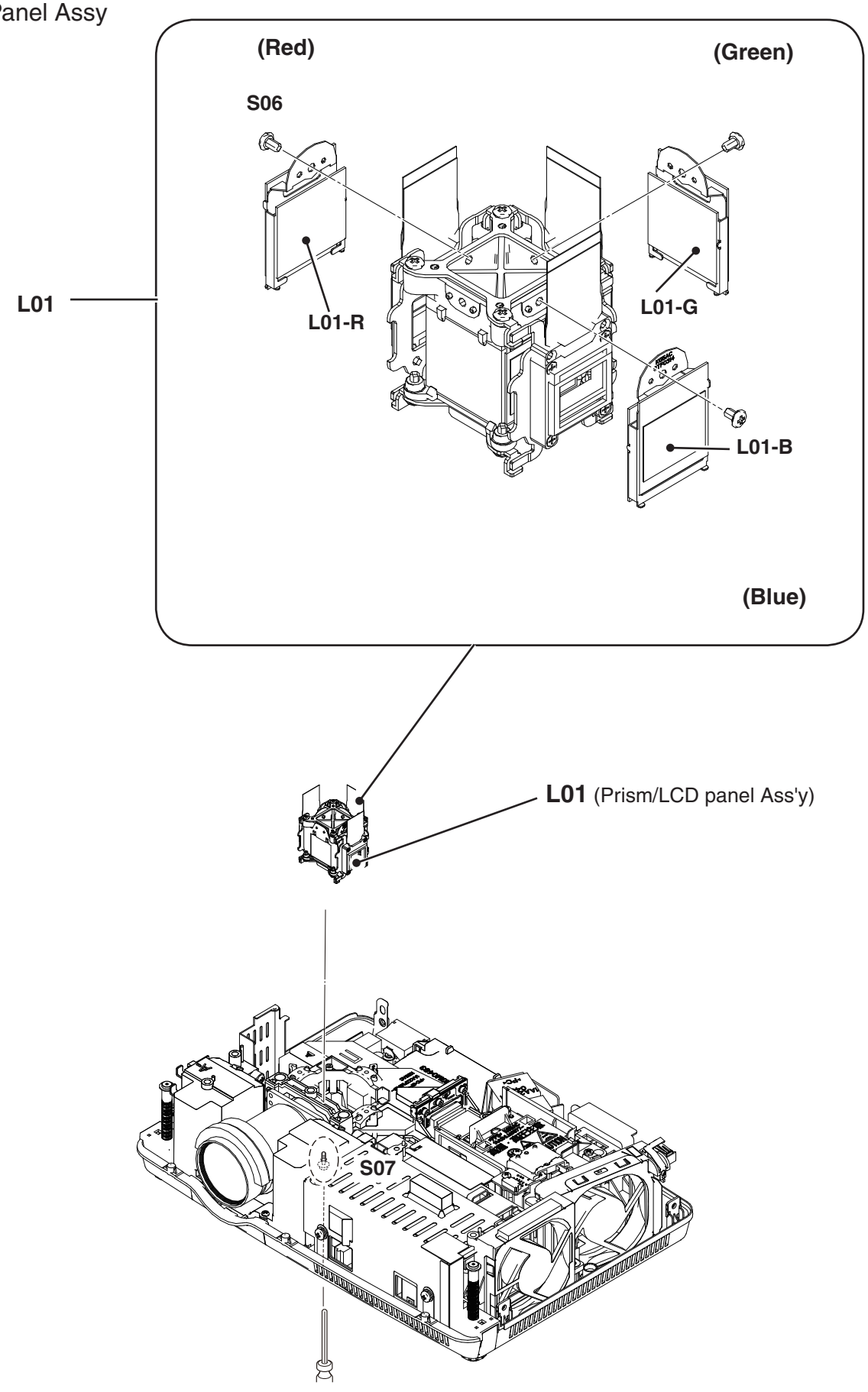
Polarized Glass-In



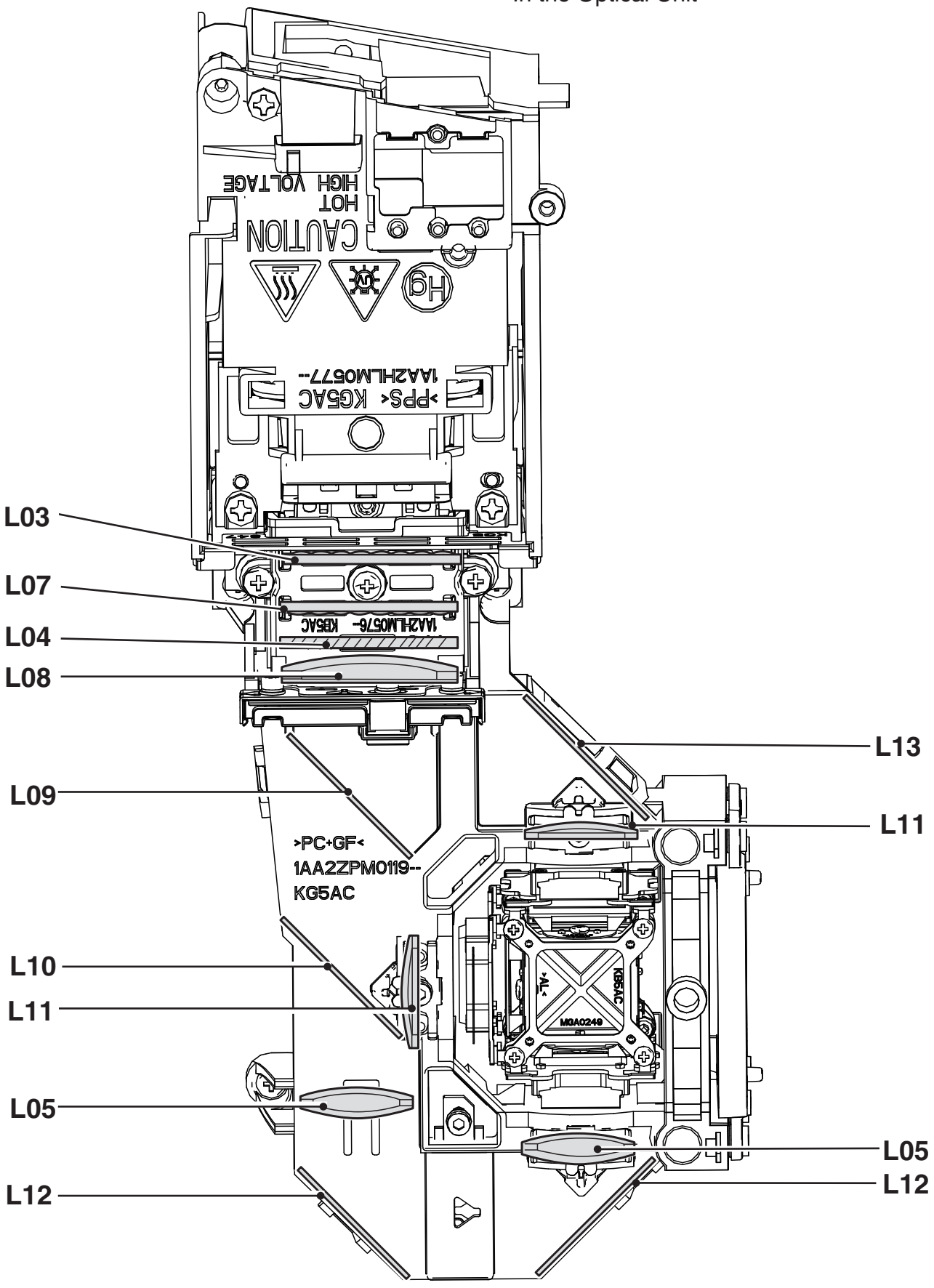
Projection Lens



Prism/LCD Panel Assy



In the Optical Unit



Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
CABINET PARTS		
C01	610 343 2045	ASSY STAND LEFT-KG5AC
C02	610 343 2052	ASSY STAND RIGHT-KG5AC
C03	610 344 3324	CABINET TOP SERVICE-KF5AC
C04	610 343 0959	BUTTON CONTROL-KG5AC
C05	610 344 1788	DEC INLAY LED-KF5AC
C06	610 344 1726	CABINET FRONT-KF5AC
C07	610 343 0881	CABINET BTM-KG5AC
C08	910 325 2859	CAP LENS-PT5EC
C09	610 344 3171	COVER ,LP SERVICE-KG5AC
C10	610 343 0942	DEC INLAY RC-KG5AC
C11	910 325 2477	DEC LEG-PT5EC
C12	610 344 1771	PANEL AV-KF5AC
C13	610 343 3943	FILTER BASE-KG5AC
C14	610 343 3950	PANEL NET B-KG5AC
C15	610 344 1733	DEC LENS-KF5AC
C16	945 047 8032	BADGE,SANYO*26.2X5.7L26.0
CHASSIS PARTS		
M01	610 342 5795	HOLDER INT PBS BTM-KG5AC
M02	610 342 5788	HOLDER INT PBS TOP-KG5AC
M03	610 343 1093	HOLDER LAMP HOUSE-KG5AC
M04	610 343 1109	HOLDER POW PWB-KG5AC
M05	610 343 1314	MTG RELAY OUT-KG5AC
M06	610 343 9624	MTG SPEAKER-KA5AC
M07	610 343 1352	MTG EXHAUST FAN-KG5AC
M08	610 343 1338	MOUNTING DUCT PNL TOP-KG5AC
M09	610 343 1369	MOUNTING DUCT PNL BTM-KG5AC
M10	610 343 9648	SPACER_SHEET_SP_KA5AC
M11	610 342 5771	OPTICAL BASE BTM-KG5AC
M12	610 343 1086	OPTICAL BASE TOP-KG5AC
M13	610 343 1550	SPACER SHEET POWER TOP-KG5AC
M14	610 343 1543	SPACER SHEET FILTER A-KG5AC
M15	610 343 1390	SPACER_SHEET_POWER_BTM_KG5AC
M16	610 343 1581	SPACER SPONGE NET-KG5AC
M17	610 343 1345	MOUNTING DUCT LAMP TOP-KG5AC
M18	610 343 1376	MOUNTING DUCT LAMP BTM-KG5AC
SCREWS		
S01	411 077 8606	SCR TPG FLT 3X8
S02	411 189 8907	SCR BIN 4X4
S03	411 031 9304	SCR BIN 3X8
S04	411 189 8303	SCR BIN 3X14
S05	412 077 8108	SPECIAL SCREW-2.5X6
S06	411 190 9108	SCR BIN 2X4
S07	312 070 3400	SPECIAL SCREW-3.0X10V
OPTICAL PARTS		
L01	610 344 3195	ASSY PNL/PSM -KG5AC
	(Including Key No. L01-R to L01-B)	
L01-R	610 344 3393	COMPL P-POL R-KG5AC
L01-G	610 344 3386	COMPL POL G-KG5AC
L01-B	610 344 3409	COMPL POL B-KG5AC
L02-R	610 346 5562	ASSY,POL R IN-KG5AC
L02-G	610 346 5531	ASSY,POL G IN-KG5AC
L02-B	610 346 5548	ASSY,POL B IN-KD5AC (For KF5-XU350A00)
L01	610 348 3474	ASSY PNL/PSM -KD5AE
	(Including Key No. L01-R to L01-B)	
L01-R	610 344 3148	COMPL P-POL R-KD5AC
L01-G	610 344 3131	COMPL POL G-KD5AC
L01-B	610 344 3155	COMPL POL B-KD5AC
L02-R	610 346 5562	ASSY,POL R IN-KG5AC
L02-G	610 346 5531	ASSY,POL G IN-KG5AC
L02-B	610 346 5548	ASSY,POL B IN-KD5AC (For KA5-XU300A00)
L03	645 099 0588	LENS,INTEGRATOR(IN)
L04	945 086 6372	PRISM(PBS)
L05	645 099 0571	LENS,RELAY(IN)
L06	645 099 0601	LENS,RELAY(OUT)
L07	645 099 0595	LENS,INTEGRATOR(OUT)
L08	645 099 0564	LENS,CONDENSER(OUT)
L09	645 099 7396	DICHROIC MIRROR (B)
L10	645 099 7402	DICHROIC MIRROR (G)
L11	645 096 4657	LENS,CONDENSER(G)
L12	645 096 4718	MIRROR(R)
	645 101 0254	MIRROR(R)
L13	645 096 4701	MIRROR(B)
	645 101 0247	MIRROR(B)
L14	645 096 9218	LENS,PROJECTION

(KF5AE, KA5AE) December 2009 DC 200 Printed in Japan

SANYO Electric Co., Ltd.

Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-XU350A	KF5-XU350A00
PLC-XU300A	KA5-XU300A00

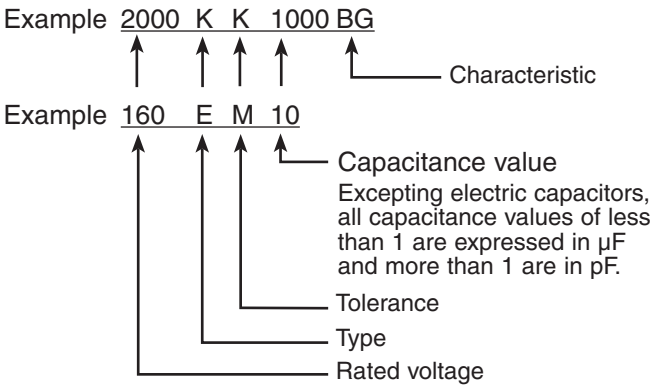
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KF5-XU350A00, KA5-XU300A00, models PLC-XU350A and PLC-XU300A.
File with the service manual No. SM5111167-00.

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

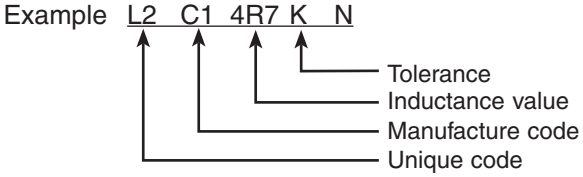
● **Material table**

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● **Tolerance table**

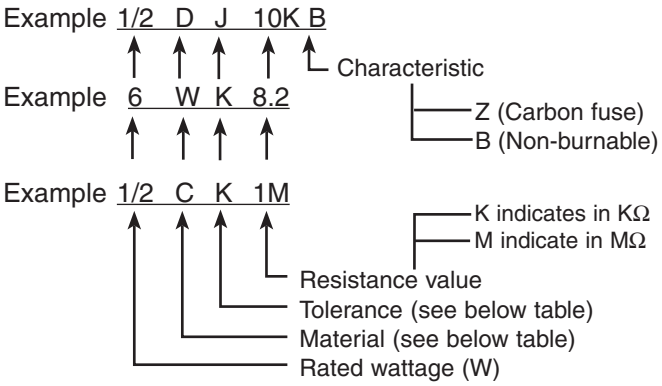
Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	±10	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● **Material table**

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● **Tolerance table**

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● **Diode**

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

● **Transistor**

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

POWER

POWER FACTOR CORRECTION

FILTER

AC100-120V
AC200-240V

F.G.

IC631
MR4010

IC621
FA5550NG

HOT

COLD

CAUTION

Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

PROJECTION LENS

LAMP BALLAST

LP900

CAUTION

Components indicated by a mark ⚠ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts.Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.

1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

MAIN

SP

R-PNL

G-PNL

B-PNL

LAMP IN

EXHAUST SIDE POWER

EXHAUST SIDE LAMP

R LCD PANEL

G LCD PANEL

B LCD PANEL

TO MAIN UNIT

TO LAMP1 ID UNIT

MICRO SW

ID CONNECT-1

LAMP ID

AV

S-VIDEO

VIDEO AUDIO_IN

AUDIO_OUT

USB PORT

PC AUDIO2_IN

PC AUDIO1_IN

R/C

TEMP SENSOR 1 (OUT SIDE) IC8811 ADT75BRMZ

R/C PRE AMP

PCdigital
DVI IN

DVI-D Pin Assign(SingleLink)		
1:TMDS2-	9:TMDS1-	17:TMDS0-
2:TMDS2+	10:TMDS1+	18:TMDS0+
3:TMDS2/5(NC)	11:GND(TMDS1)	19:GND(TMDS0)
4:NC(TMDS4-)	12:NC(TMDS3-)	20:NC(TMDS5-)
5:NC(TMDS4+)	13:NC(TMDS3+)	21:NC(TMDS5+)
6:DDC_CLK	14:Power +5V	22:GND(TMDS+)
7:DDC_DATA	15:GND	23:TMDS/C+
8:NC(VS)	16:HPD	24:TMDS/C-

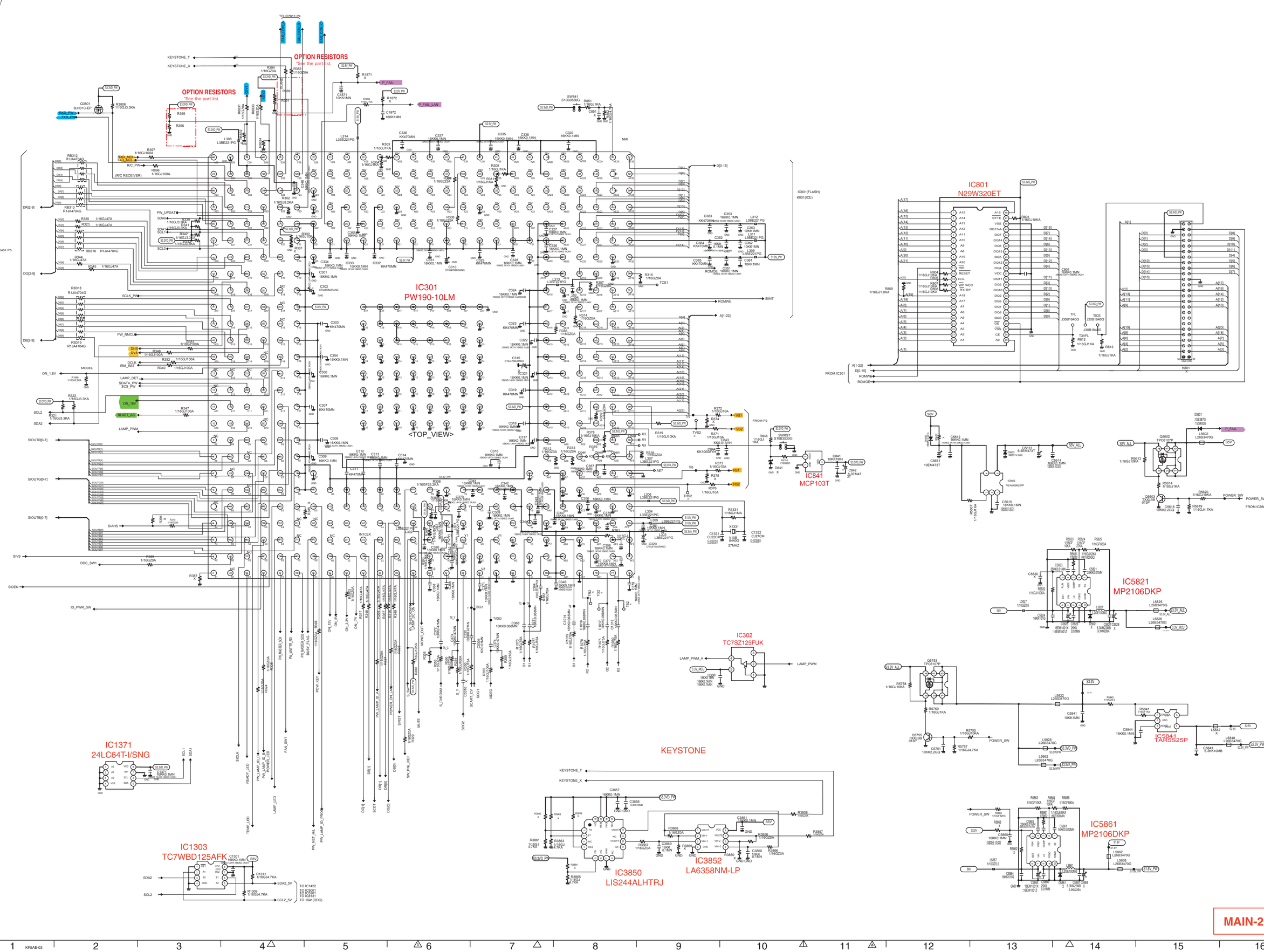
PC1
RGB
YCbCr/
SCART

PC2
RGB-IN/
RGB-OUT

S-VIDEO
VIDEO
AUDIO_IN
PC
AUDIO_IN
AUDIO_OUT

IC8001
SII9127CTUM

IC5201
IC5301
TC7WH125FUK
IC5304
TC7WH125FUK
IC4701
TC7WT125FUK
IC1051
LE24C023M-EP



KF5AE-03

SCH_KF5AE, SCH_KA5AE

A5

LED

KEY SW

R/C

LAMP BALLAST

LAMP_ COVER_SW

ID

POWER

FN903 B-PNL

FN904 G-PNL

FN905 R-PNL

FN901 LAMP IN

FN902 EXHAUST SIDE POWER

FN906 EXHAUST SIDE LAMP

IC7841 PQ20WZ11P

IC5601 MP2307D2P

IC9882 HD74GLVC14T

IC4891 TC7SH00FUP

IC5001 PCM1754DBQR

IC5543 XC6216BC02MR

IC5542 XC6216BC02MR

IC7811 FA7703V-H1G

IC1031 NJM4558M

IC5031 LM4889MMP

IC5081 PQ1M505M2SPP

IC8831 MCP9801-M/SN

IC8821 MCP9801-M/SN

TEMP SENSOR 3 (LAMP)

TEMP SENSOR 2 (PANEL)

MAIN-3

IC561(S&H)

IC301 SYSTEM CONTROL

SDATA_PW
SCLK_PW
SCS_PW

IC301 SYSTEM CONTROL

DR[0]
DR[1]
DR[2-9]
DG[2-9]
DB[2-9]

IC401
L3E07111K0AM

<TOP_VIEW>

RGB COMMON

DG_ENBY1
DG_ENBY2
DRGB_DY
CLYOUT
NRG
ENBX1G
DXOUTG
CLXOUTG
XFRG
FRPG
SHCLKG

IC531(S&H)

DG_1[0-9]
DG_2[0-9]

IC501(S&H)

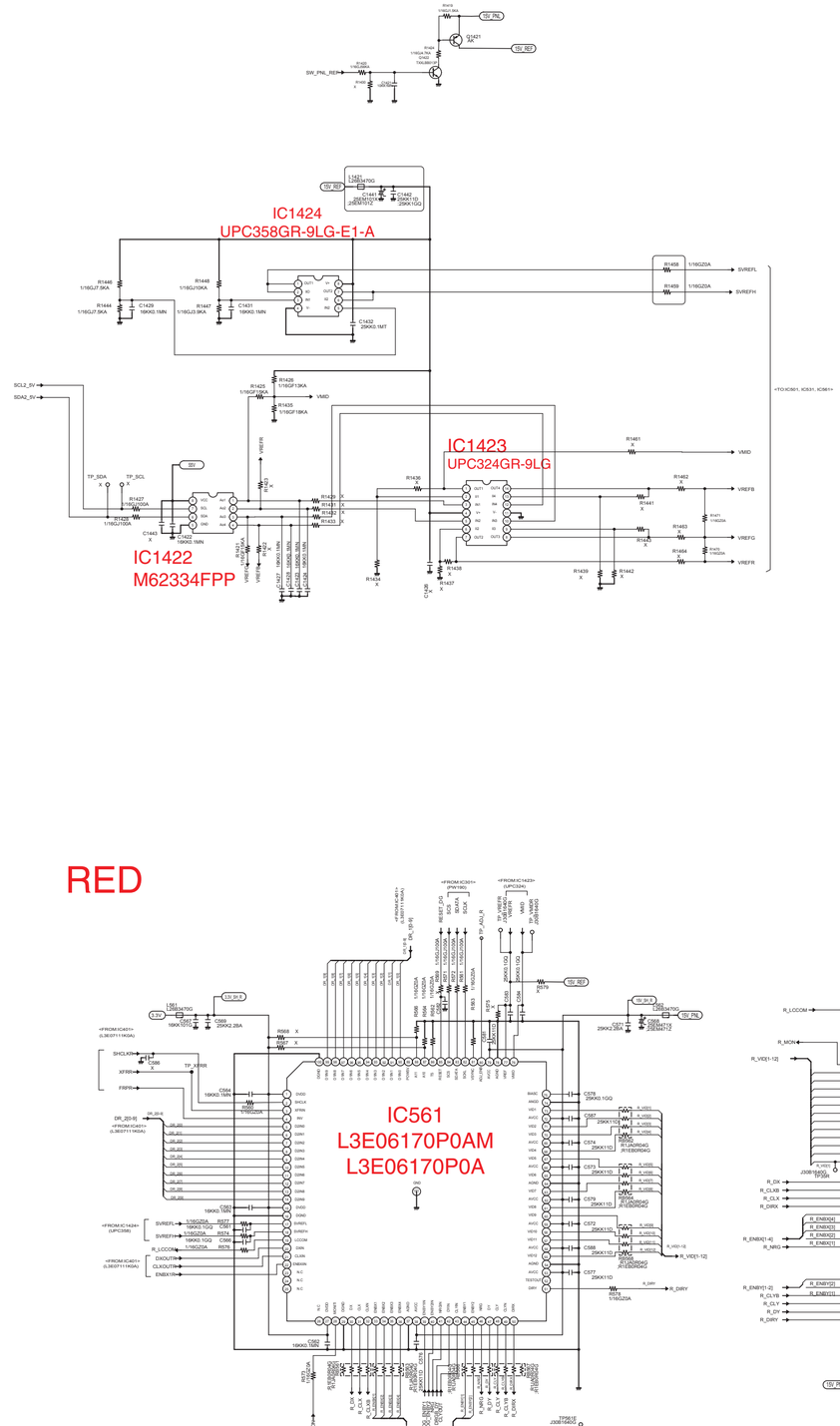
DB_1[0-9]
DB_2[0-9]

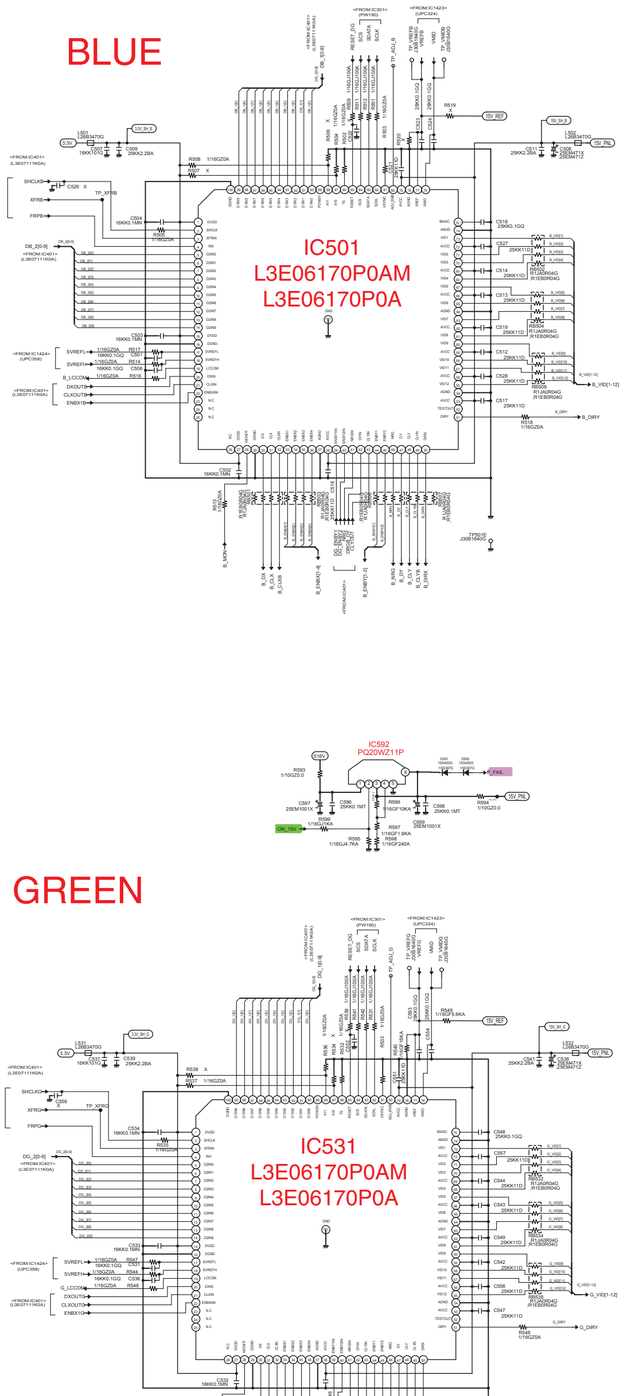
A SIDE

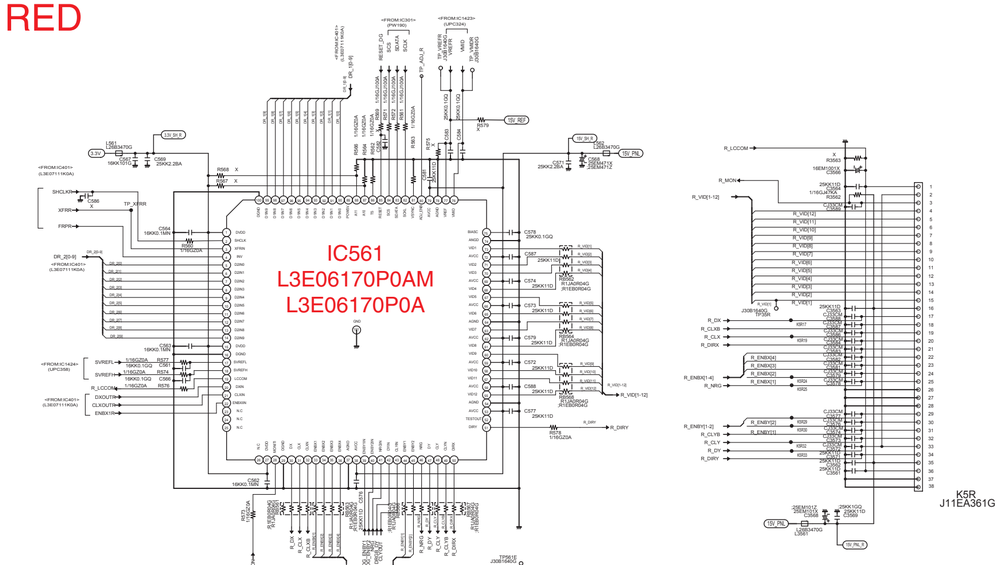
FROM PW

IC5621
R1131D101B-TR-F

MAIN-4





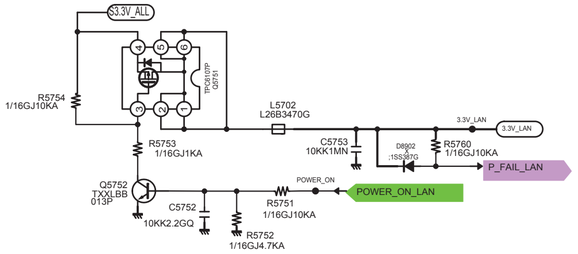


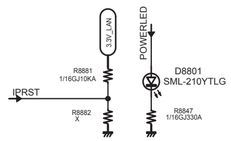
MAIN-5

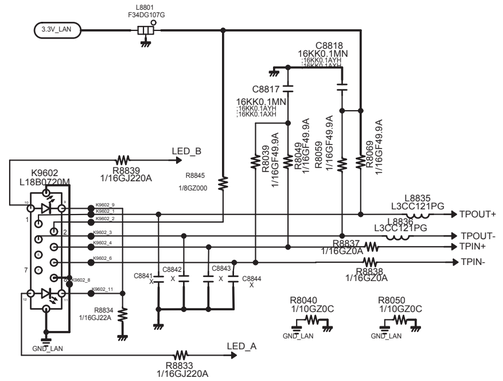
KF5AE-06

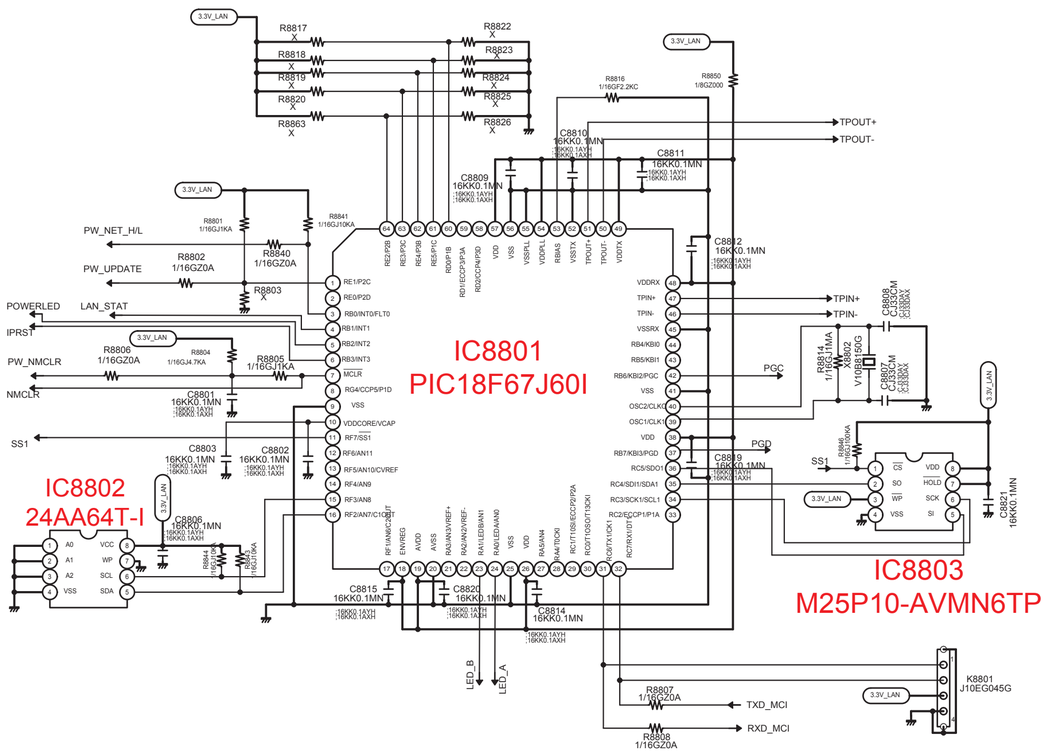
SCH_KF5AE, SCH_KA5AE

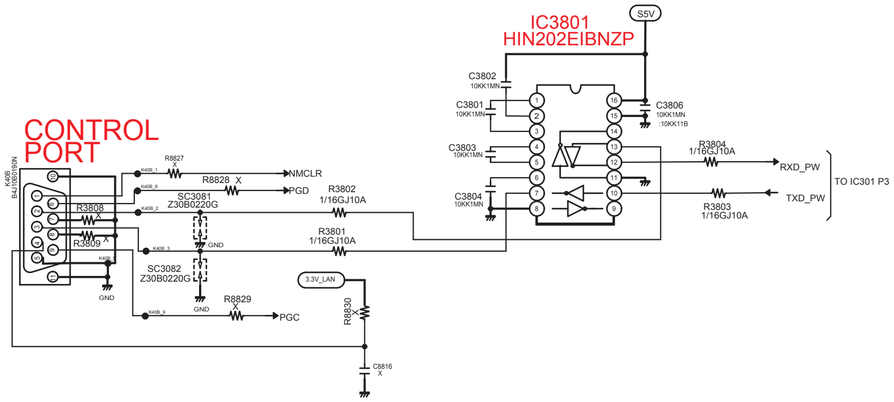
A8

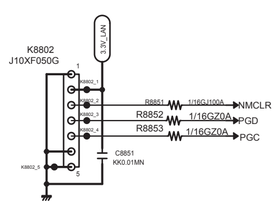

3.3V_ALL
R5754
1/16GJ10KA
L5702
L26B3470G
3.3V_LAN
R5753
1/16GJ1KA
C5753
10KK1MN
D8902
:1SS387G
R5760
1/16GJ10KA
P_FAIL_LAN
Q5752
TXXLBB
013P
POWER_ON
POWER_ON_LAN
C5752
10KK2.2GQ
R5751
1/16GJ10KA
R5752
1/16GJ4.7KA

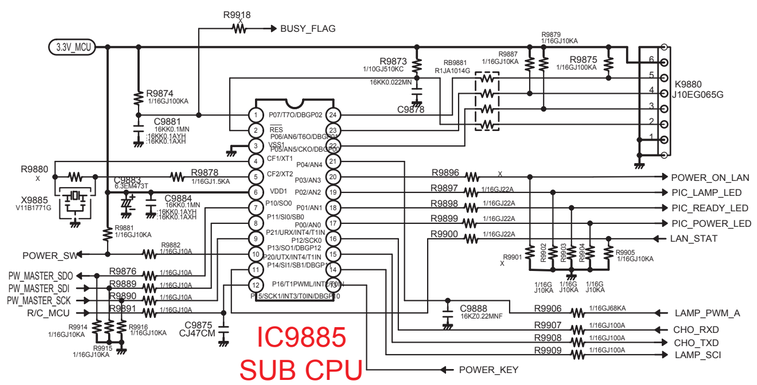

3.3V_LAN
POWERLED
R8881
1/16GJ10KA
IPRST
R8882
X
D8801
SML-210YTLG
R8847
1/16GJ330A


3.3V_LAN
L8801
F34DG107G
C8818
16KK0.1MN
C8817
16KK0.1MN
LED_B
R8839
1/16GJ220A
R8845
1/8GZ000
K9602
L18NT220M
R8809
1/16GF49.9A
R8814
1/16GF49.9A
R8059
1/16GF49.9A
R8069
1/16GF49.9A
L8835
L3CC121PG
L8834
L3CC121PG
TPOUT+
TPOUT-
TPIN+
TPIN-
R8837
1/16GZ0A
R8838
1/16GZ0A
C8841
C8842
C8843
C8844
R8834
1/16GJ22A
GND_LAN
R8833
1/16GJ220A
LED_A
R8040
1/10GZ0C
R8050
1/10GZ0C


IC8801
PIC18F67J60I
3.3V_LAN
R8817
R8818
R8819
R8820
R8863
R8822
R8823
R8824
R8825
R8826
R8816
1/16GF2.2KC
R8850
1/8GZ000
C8810
16KK0.1MN
C8811
16KK0.1MN
C8809
16KK0.1MN
C8812
16KK0.1MN
TPOUT+
TPOUT-
TPIN+
TPIN-
PW_NET_H/L
PW_UPDATE
POWERLED
LAN_STAT
IPRST
PW_NMCLR
NMCLR
SS1
R8801
1/16GJ1KA
R8841
1/16GJ10KA
R8840
1/16GZ0A
R8802
1/16GZ0A
R8803
X
R8806
1/16GZ0A
R8804
1/16GJ4.7KA
R8805
1/16GJ1KA
C8801
16KK0.1MN
C8803
16KK0.1MN
C8802
16KK0.1MN
C8806
16KK0.1MN
C8815
16KK0.1MN
C8820
16KK0.1MN
C8814
16KK0.1MN
C8807
C1333CM
C8808
C1333CM
R8814
1/16GJ1MA
X8802
V10B8150G
PGC
PGD
C8809
16KK0.1MN
R8846
1/16GJ100A
C8821
16KK0.1MN
IC8802
24AA64T-I
IC8803
M25P10-AVMN6TP
LED_B
LED_A
R8807
1/16GZ0A
R8808
1/16GZ0A
TXD_MCI
RXD_MCI
K8801
J10EG045G


CONTROL
PORT
IC3801
HIN202EIBNZP
S5V
C3802
10KK1MN
C3801
10KK1MN
C3803
10KK1MN
C3804
10KK1MN
C3806
10KK1MN
:10KK11B
R3804
1/16GJ10A
R3803
1/16GJ10A
RXD_PW
TXD_PW
TO IC301 P3
K4KB
B41480P0004
R8827
R8828
X
NMCLR
PGD
R3802
1/16GJ10A
SC3081
Z30B0220G
R3808
X
R3809
X
R3801
1/16GJ10A
SC3082
Z30B0220G
GND
R8829
X
PGC
3.3V_LAN
R8830
X
C8816
X


K8802
J10XF050G
3.3V_LAN
R8851
1/16GJ100A
NMCLR
R8852
1/16GZ0A
PGD
R8853
1/16GZ0A
PGC
C8851
KK0.01MN

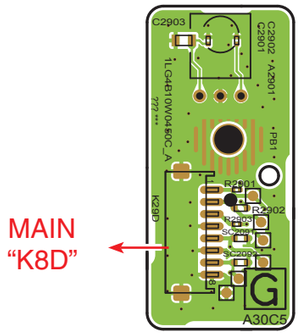

IC9885
SUB CPU
R9918
BUSY_FLAG
3.3V_MCU
R9873
1/10GJ510KC
16KK0.022MN
C9878
R9879
1/16GJ10KA
R9875
1/16GJ100KA
K9880
J10EG065G
R9874
1/16GJ100KA
C9881
16KK0.1MN
R9880
X
X9885
V11B1771G
C9883
V15B2471T
R9878
1/16GJ1.5KA
C9884
16KK0.1MN
R9881
1/16GJ10KA
R9882
1/16GJ10KA
POWER_SW
R9896
X
R9897
1/16GJ22A
R9898
1/16GJ22A
R9899
1/16GJ22A
R9900
1/16GJ22A
POWER_ON_LAN
PIC_LAMP_LED
PIC_READY_LED
PIC_POWER_LED
LAN_STAT
R9901
X
R9902
1/16GJ10KA
R9903
1/16GJ10KA
R9905
1/16GJ10KA
PW_MASTER_SDO
PW_MASTER_SDI
PW_MASTER_SCK
R/C_MCU
R9876
1/16GJ10A
R9889
1/16GJ10A
R9890
1/16GJ10A
R9891
1/16GJ10A
R9914
1/16GJ10KA
R9915
1/16GJ10KA
R9916
1/16GJ10KA
C9875
CJ47CM
C9888
16KZ0.22MNF
R9906
1/16GJ68KA
R9907
1/16GJ100A
R9908
1/16GJ100A
R9909
1/16GJ100A
LAMP_PWM_A
CHO_RXD
CHO_TXD
LAMP_SCI
POWER_KEY

MAIN-6

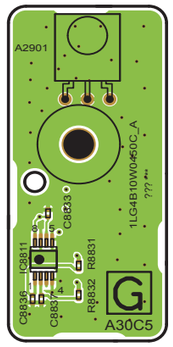
NO DATA

Printed Wiring Board Diagrams

R/C (SIDE:A)



R/C (SIDE:B)

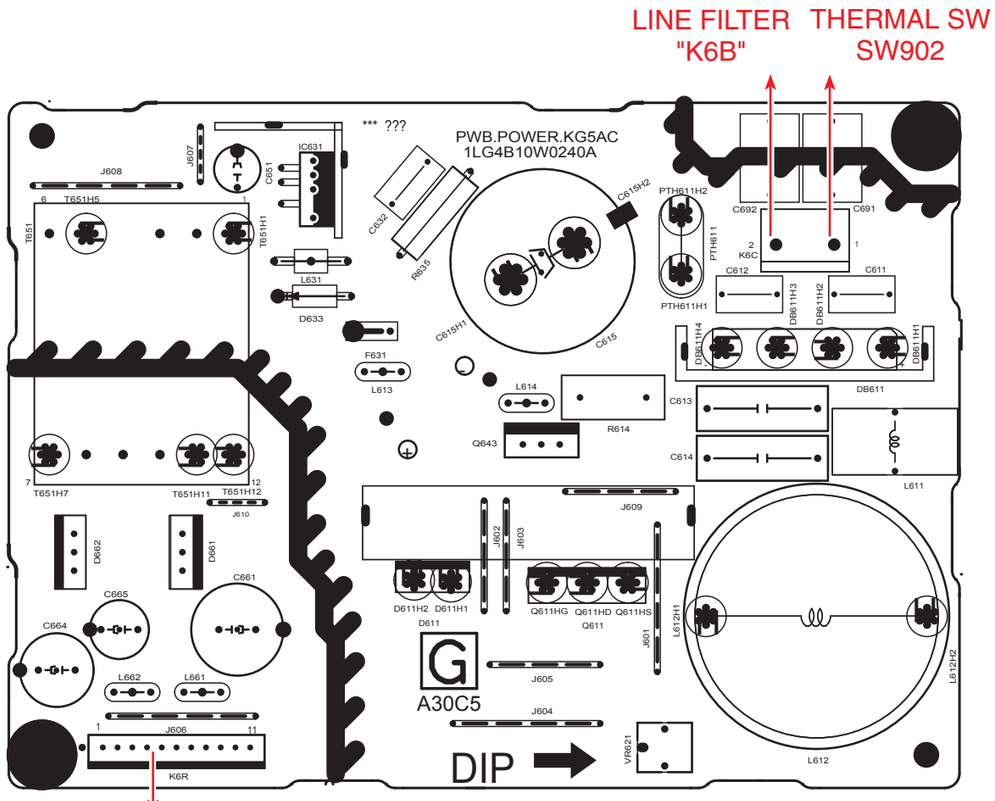


⚠ CAUTION

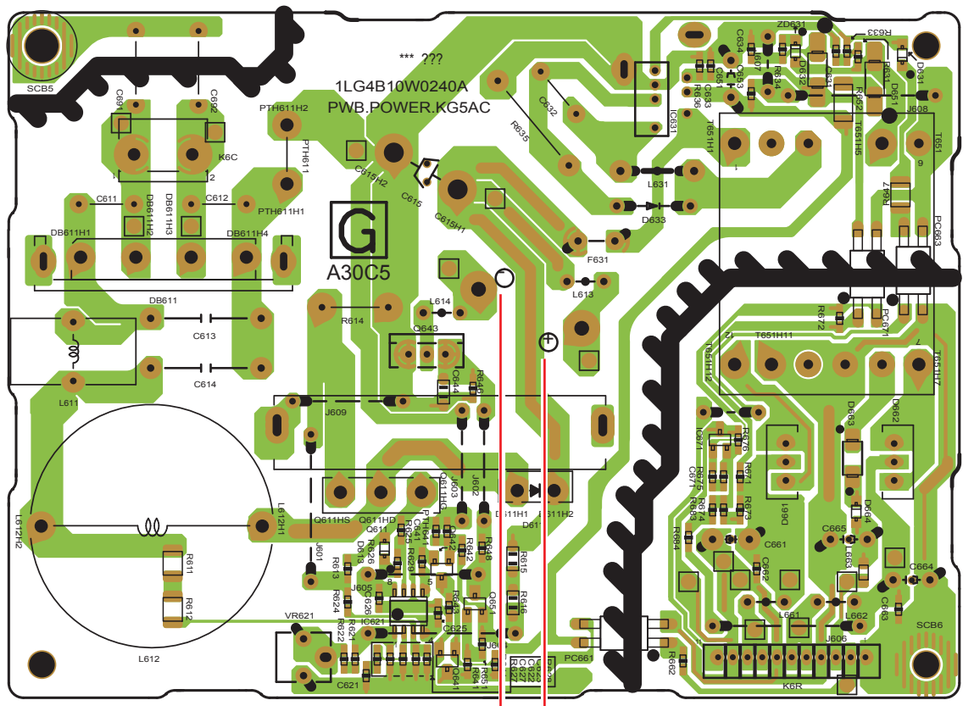
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

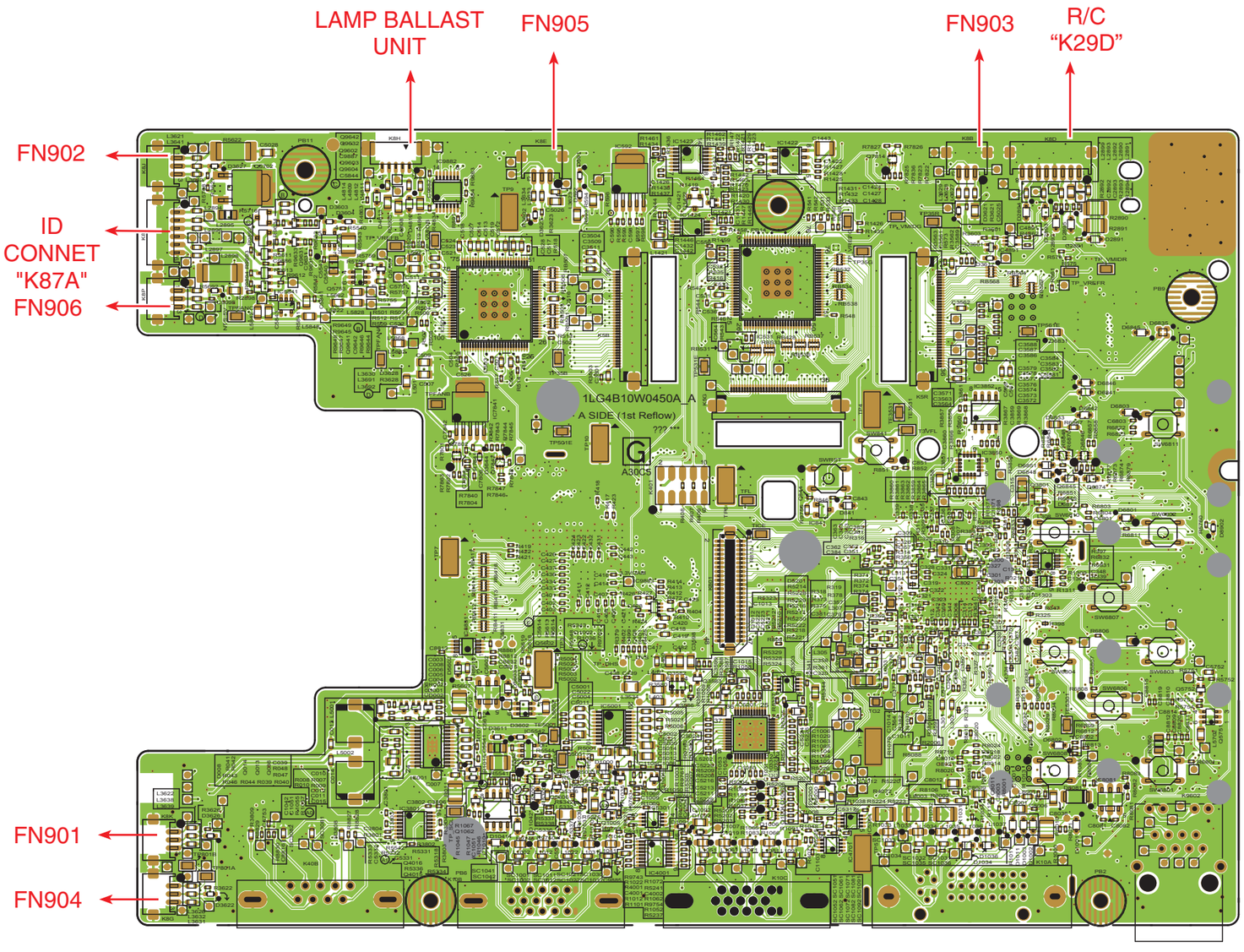
POWER (SIDE:A)



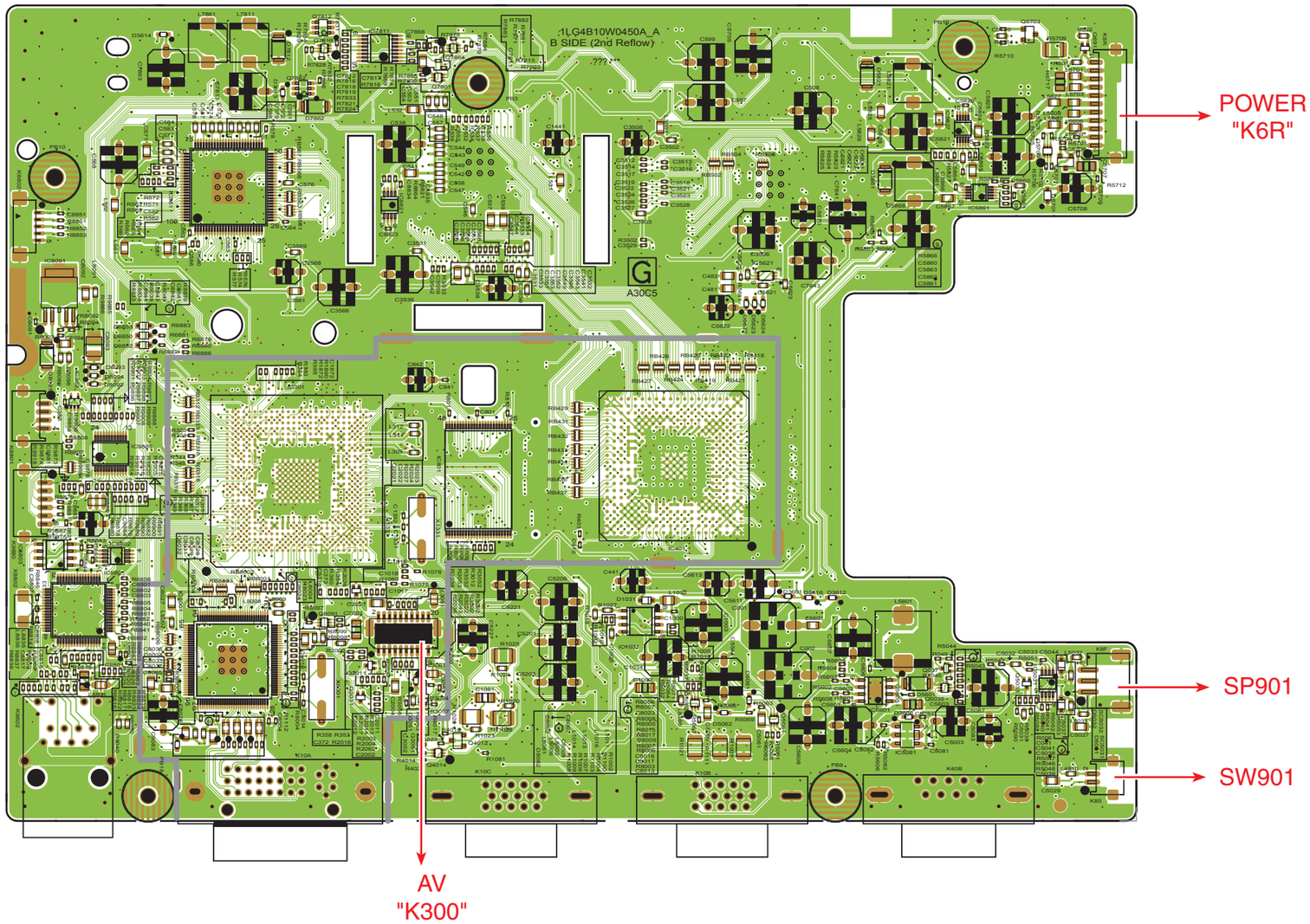
POWER (SIDE:B)



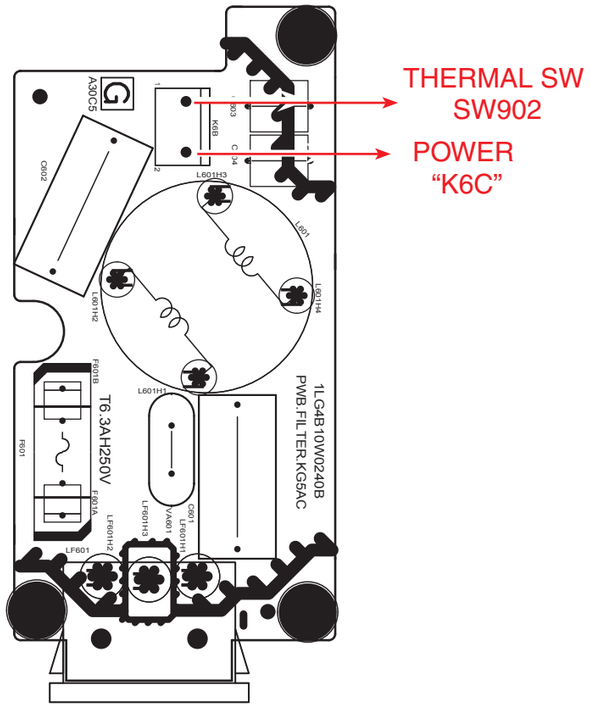
MAIN (SIDE:A)


LAMP BALLAST UNIT
FN905
FN903
R/C "K29D"
FN902
ID CONNET "K87A" FN906
FN901
FN904
1LG4B10W0450A_A
A SIDE (1st Reflow)

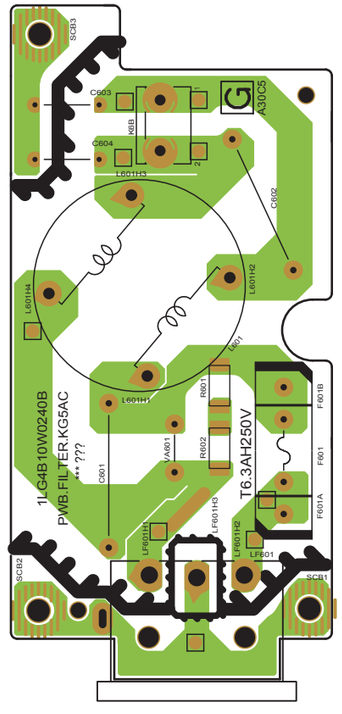
MAIN (SIDE:B)


1LG4B10W0450A_A
B SIDE (2nd Reflow)
A30C5
POWER
"K6R"
SP901
SW901
AV
"K300"

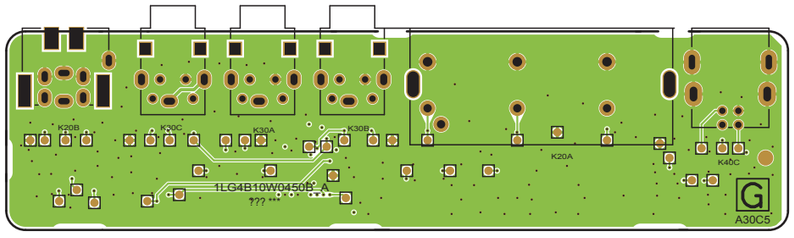
LINE FILTER (SIDE:A)



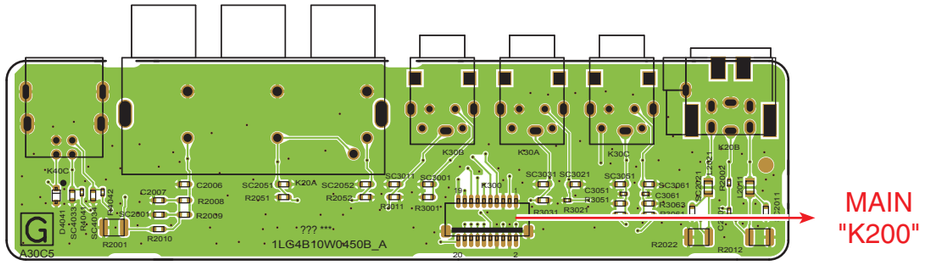
LINE FILTER (SIDE:B)



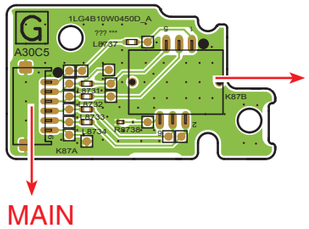
AV (SIDE:A)



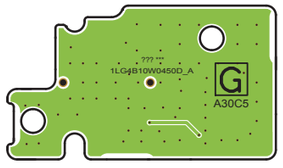
AV (SIDE:B)



ID CONNECT (SIDE:A)

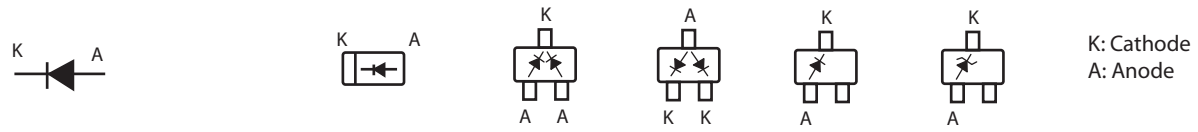


ID CONNECT (SIDE:B)



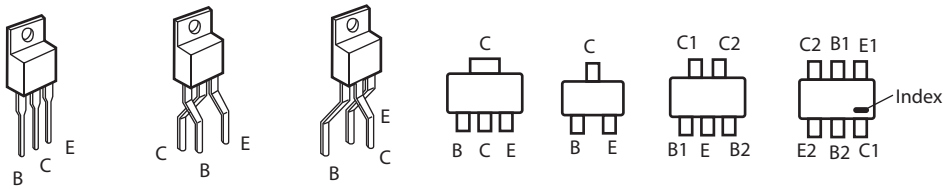
Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

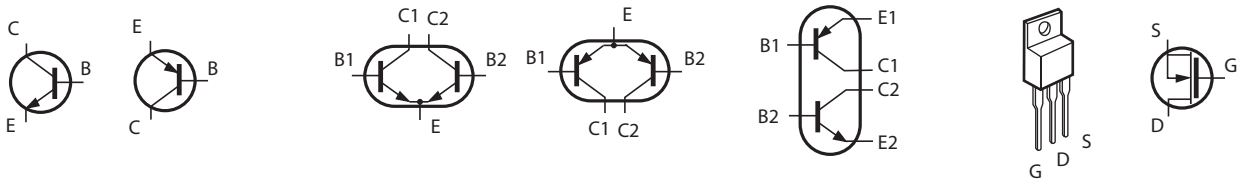
● Transistor/FET



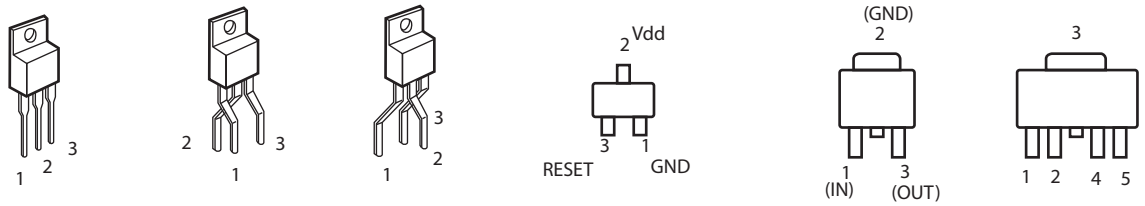
C: Collector
B: Base
E: Emitter

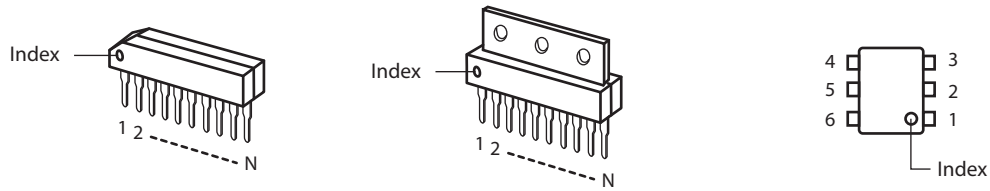
D: Drain
G: Gate
S: Source

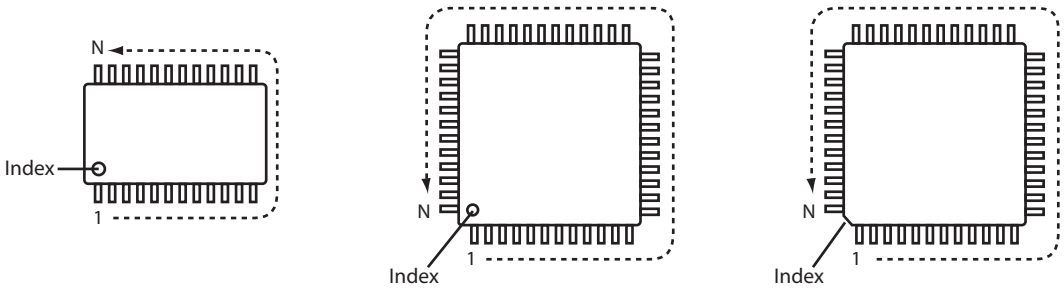
FET

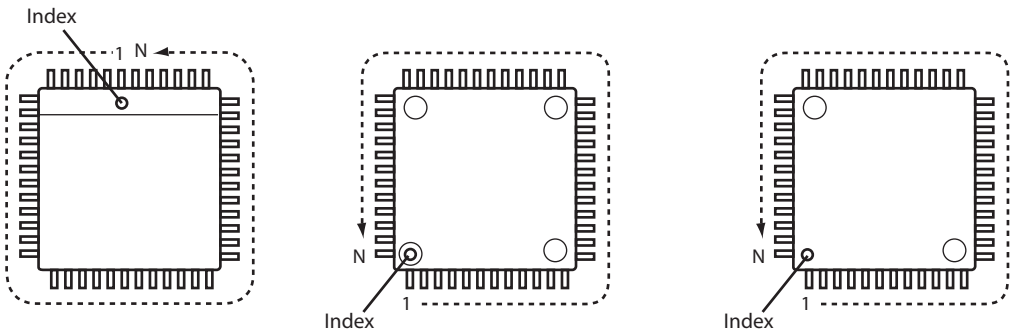


● IC









Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.